

HCL Z Data Tools
User's Guide and Reference for CICS
Version 1.1.0



Note

Before using this document, read the general information under [Notices on page clii](#).

Edition Notice

This edition, which is published in March 2022, applies to Version 1 Release 1 of HCL Z Data Tools (program number HCL19OP1220), and to all subsequent releases and modifications until otherwise indicated in new editions.

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User's Guide and Reference for CICS®

This publication provides guidance and reference information for users of Z Data Tools CICS® component (ZDT/CICS).

About this document

This document provides guidance and reference information for users of Z Data Tools for CICS Component (ZDT/CICS).

Z Data Tools contains four “*flavors*” of Z Data Tools, for working in different environments or with different data formats:

- **ZDT/CICS** for working with CICS® resources.
- **Z Data Tools “base”** for working with QSAM data sets, VSAM data sets, or PDS members
- **Db2 Component** for working with Db2® data
- **IMS Component** for working with IMS™ data

In addition, reference is made to the HCL Z Common Components server (ZCC server).

This information is primarily focussed on the ZDT/CICS component and the differences between it and Z Data Tools “base”. You should use this document in conjunction with the *Z Data Tools User’s Guide and Reference*.

This document is divided into three parts:

Part 1. Working with ZDT/CICS

Describes the key ZDT/CICS concepts and tasks.

Part 2. ZDT/CICS reference

Provides a lookup reference for ZDT/CICS panels, fields, and commands.

For more information about the Z Data Tools “base”, ZDT/Db2, and ZDT/IMS components, see the following books:

- *Z Data Tools User’s Guide and Reference*
- *Z Data Tools User’s Guide and Reference for DB2 Data*
- *Z Data Tools User’s Guide and Reference for IMS Data*

Who should use this document

This document is for three kinds of Z Data Tools users:

- Application programmers who need to test and debug programs
- Service support personnel who need to analyze and fix problems
- System administrators and system operators who need to do routine tasks such as moving large amounts of data

This document assumes that you are familiar with using CICS.

How to read syntax diagrams

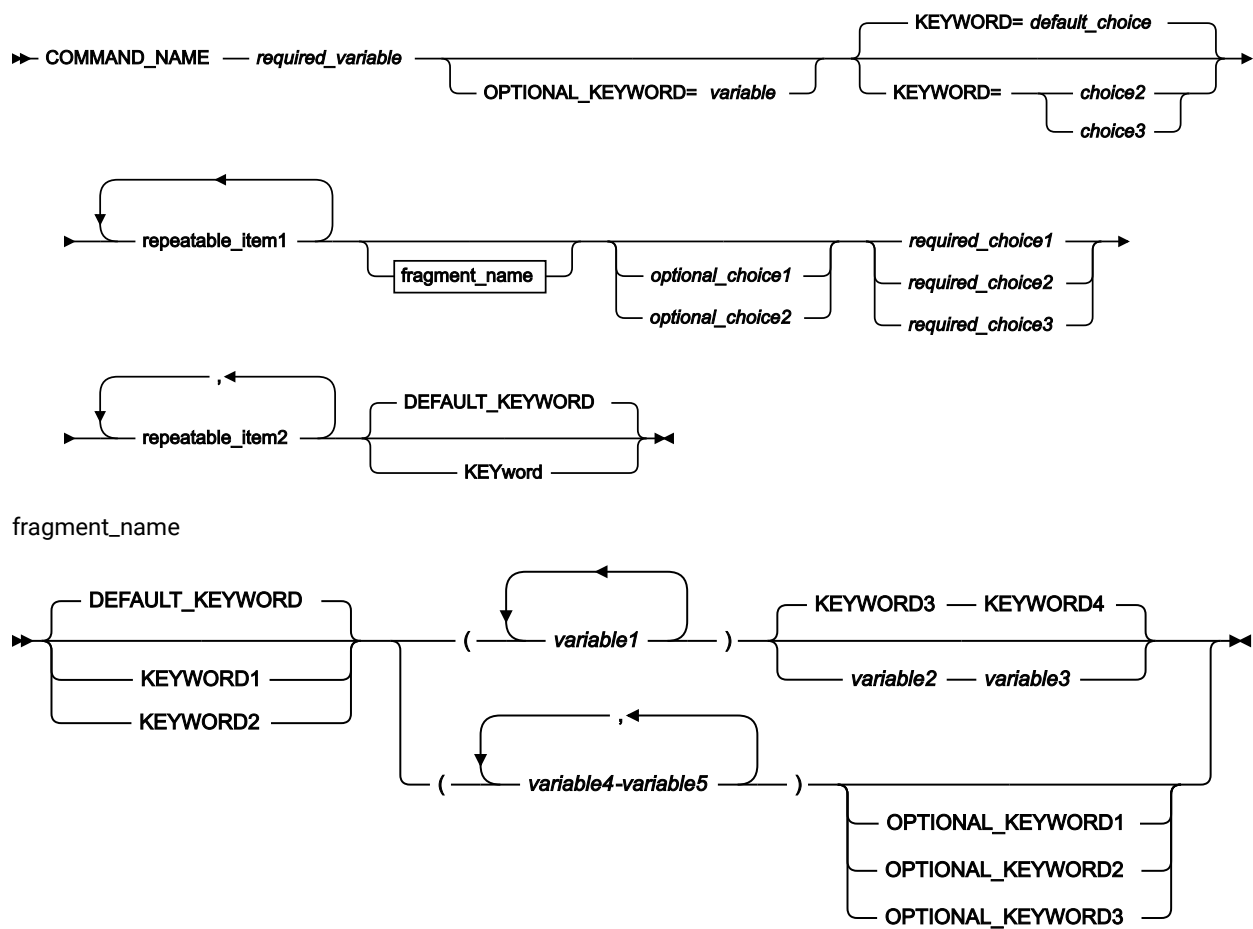
The syntactical structure of commands described in this document is shown by means of syntax diagrams.

Figure 1: Sample syntax diagram on page viii shows a sample syntax diagram that includes the various notations used to indicate such things as whether:

- An item is a keyword or a variable.
- An item is required or optional.
- A choice is available.
- A default applies if you do not specify a value.
- You can repeat an item.

Figure 1. Sample syntax diagram

Figure 1. Syntax



Here are some tips for reading and understanding syntax diagrams:

Order of reading

Read the syntax diagrams from left to right, from top to bottom, following the path of the line.

The \twoheadrightarrow symbol indicates the beginning of a statement.

The \longrightarrow symbol indicates that a statement is continued on the next line.

The \longleftarrow symbol indicates that a statement is continued from the previous line.

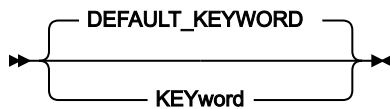
The $\longrightarrow\blacktriangleleft$ symbol indicates the end of a statement.

Keywords

Keywords appear in uppercase letters.

\blacktriangleright **COMMAND_NAME** \blacktriangleleft

Sometimes you only need to type the first few letters of a keyword, The required part of the keyword appears in uppercase letters.



In this example, you could type "KEY", "KEYW", "KEYWO", "KEYWOR" or "KEYWORD".

The abbreviated or whole keyword you enter must be spelled exactly as shown.

Variables

Variables appear in lowercase letters. They represent user-supplied names or values.

\blacktriangleright *required_variable* \blacktriangleleft

Required items

Required items appear on the horizontal line (the main path).

\blacktriangleright **COMMAND_NAME** — *required_variable* \blacktriangleleft

Optional items

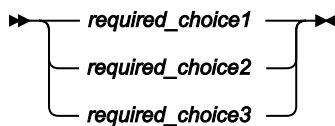
Optional items appear below the main path.



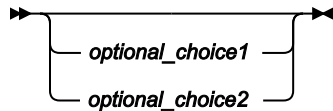
Choice of items

If you can choose from two or more items, they appear vertically, in a stack.

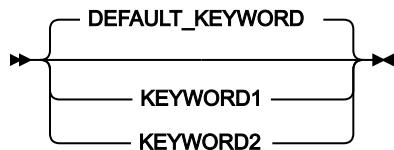
If you *must* choose one of the items, one item of the stack appears on the main path.



If choosing one of the items is optional, the entire stack appears below the main path.

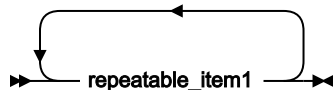


If a default value applies when you do not choose any of the items, the default value appears above the main path.

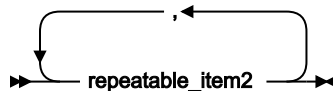


Repeatable items

An arrow returning to the left above the main line indicates an item that can be repeated.

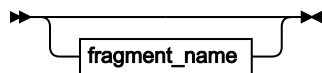


If you need to specify a separator character (such as a comma) between repeatable items, the line with the arrow returning to the left shows the separator character you must specify.

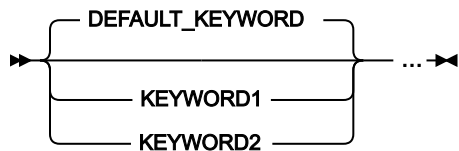


Fragments

Where it makes the syntax diagram easier to read, a section or *fragment* of the syntax is sometimes shown separately.



fragment_name



Summary of changes

March 2020, V14R1M10

This edition of the document provides information applicable to Z Data Tools Version 14 Release 1 Modification Level 10. Here are the major changes to this document from the previous edition for Version 14 Release 1.

- On exit from an edit session, ZDT/CICS asks for confirmation before performing a destructive read and restore of a CICS® intrapartition transient data queue. See [Editing transient data queues on page 44](#).

These changes, and smaller corrections and additions, are indicated by a “/” change bar in the left margin of the page.

Part I. Working with ZDT/CICS

Chapter 1. ZDT/CICS overview

ZDT/CICS is a powerful set of utility functions for editing, browsing, printing, and altering the status of CICS® resources. The CICS resources supported are files, temporary storage queues, transient data queues, and data tables. If you have the authority, you can also modify the status of the CICS resources. ZDT/CICS incorporates much of the functionality of Z Data Tools ("base") into the CICS environment.

ZDT/CICS uses HCL Z Common Components to display panels on CICS with a similar capability to ISPF panels. ZDT/CICS panels allow you to select options and to specify parameters, commands, and program function (PF) keys to simplify requests for common functions. ZDT/CICS panels provide full-screen format for information display and editing.

The main functions provided by ZDT/CICS are:

- The ability to view or edit CICS resources.
- The ability to list CICS resources and change their status and attributes.
- The ability to run Z Data Tools ("base") under ZDT/CICS, hence using it without requiring ISPF. This includes the ability to use Z Data Tools Base tools and utilities against ZDT/CICS resources when running under ZDT/CICS.
- The ability to run Z Data Tools IMS Component (ZDT/IMS) under ZDT/CICS, using it without requiring ISPF.

The CICS resources that are supported are:

- Files (VSAM and data tables only).
- Temporary storage queues.
- Transient data queues.

Chapter 2. System requirements for Z Data Tools for CICS®

ZDT/CICS supports:

- CICS® Transaction Server for z/OS® Version 5.1
- CICS® Transaction Server for z/OS® Version 5.2
- CICS® Transaction Server for z/OS® Version 5.3
- CICS® Transaction Server for z/OS® Version 5.4
- CICS® Transaction Server for z/OS® Version 5.5

Where variations exist within ZDT/CICS depending on the version of CICS® you are using, these variations are highlighted in this document by indicators that identify the start and end of a section of text.

Chapter 3. Getting started with ZDT/CICS

This chapter is designed to help the new user to familiarize themselves with the user interface and general methods for working within ZDT/CICS panels.

Starting ZDT/CICS

You can invoke ZDT/CICS:

- By submitting a batch job, or
- Directly (if ZDT/CICS has been configured to connect to ZCC server).

To start ZDT/CICS, enter the transaction name for Z Data Tools:

```
HFM userid (invocation options)
```

To run ZDT/CICS from another CICS® application, code this command:

```
EXEC CICS LINK PROGRAM('HFM3CICS') COMMAREA('HFM userid (invocation options)')
```

Where:

HFM

- For the transaction invocation, this is the default transaction name for Z Data Tools.



Note: The default transaction name, HFM, may have been changed at your site during installation due to local standards or other reasons. If you change this value, then you must also change the HFM3POPT options module to reflect the current transaction identifier for the (BACKGROUND) option to work.

- For the coded command (when running from another CICS application), this is required and must be the first two characters in the COMMAREA

userid

Is optional. Each ZDT/CICS user is required to provide an MVS userid and (on the next panel) the password. If you omit the userid then:

- If you have signed on using CESN and the product has been installed with either `*DEFAULT=SIGNON` or `*PASSWORD=REMEMBER`, then the userid defaults to the signed-on userid.
- If you have not signed on, then you are prompted for a userid before the logon panel is presented.

invocation options

These options allow you to specify how you want to invoke ZDT/CICS. You specify them within parentheses, separated with a space:

START=BATCH

Invokes ZDT/CICS by submitting a batch job. You only need to specify this option if the installation option is set to START=TASK and you want to override it.

START=TASK

Invokes ZDT/CICS directly (non-batch). You only need to specify this option if the installation option is set to START=BATCH and you want to override it.

BACKGROUND

Instructs ZDT/CICS to run non-terminal processing in a background task.

Once a valid userid has been specified to the HFM transaction, ZDT/CICS displays the Z Data Tools for CICS Logon panel. There are two forms of this logon panel:

- The batch invocation panel is displayed when `START=BATCH` is in effect at logon. It submits a batch job that invokes ZDT/CICS.
- The non-batch invocation panel is displayed when `START=TASK` is in effect at logon.



Note: The Z Data Tools for CICS Logon panel is displayed for every user the first time the HFM transaction is entered. The logon panel can be bypassed on subsequent invocations of the HFM transaction if all of the following conditions are true:

- The `*PASSWORD=REMEMBER` install option has been specified.
- You have already signed on to CICS.
- The userid has been omitted when invoking the HFM transaction.

1. On the Z Data Tools for CICS Logon panel, enter your password in the **Password** entry field.

The **Password** entry field is normally the only field on the Z Data Tools for CICS Logon panel in which you need to enter details (all the entry fields are prefilled). If this is the case, go to [Step 9 on page 17](#).

2. To change the current password for the MVS userid, enter the new password in the **New Password** field.
The new password must comply with the password rules for your system. If the new password is valid, you are prompted to enter the new password again to confirm. If you enter the same password again, your new password is accepted.

(Non-batch invocation only.) You can enter a passphrase of up to 100 characters.

3. (Batch invocation only.)

If necessary, specify the node on which the job is to run in the **Node** field. A `/*ROUTE XEQ node.user` statement is added after the job card to run the job on the specified machine.

4. (Batch invocation only.)

If necessary, in the **Procedure** field, specify the procedure name for running Z Data Tools on your system. This must be available from an active procedure library. The installation default procedure is `HFM3CICB`.

5. If necessary, in the **Profile data set** field, specify the name of the profile data set to be used to save session information for subsequent invocations. The userid must have access to create and update the specified data set, or the batch job fails. If the data set does not exist, the batch procedure creates it. If the data set exists, it must be a fixed-blocked partitioned data set (preferably a PDSE, if possible) with LRECL of 80.
6. If necessary, in the **Prefix** field, specify the prefix to be used as the high-level qualifier when specifying unquoted data sets during the Z Data Tools session. If you do not want prefixing on unquoted data set names, leave this field blank.
7. (Batch invocation only.)

If necessary, in the **Jobcard** entry field lines, edit the jobcard details for the submitted job.

The jobcard can use the following variables which are substituted when the job is submitted:

&TERM

The current 1–4 character terminal ID is substituted.

&USER

The current 1–7 character MVS userid is substituted.



Note:

- a. You can terminate the variable with a period which will also be removed during substitution.
- b. The jobcard should be unique and assigned to a class where it will run immediately.

8. (Non-batch invocation only.)

The **Port** field shows the port number used to connect to the ZCC server.

The **Host name** field shows the name of the system where the ZCC server is running. If it is blank, then ZDT/CICS obtains and uses the host name of the current system.

9. To submit the batch job that invokes ZDT/CICS, press Enter.

When the job is submitted, the logon panel waits for 20 seconds for the job to start and respond. If the job has not responded, it issues a "Job not responding" message. You need to check on the status of the job and either press F5 to wait a further 20 seconds, or press Enter to resubmit the job with any applicable changes. Look up the error message number in the *Z Data Tools User's Guide and Reference* for further information if the job is not responding.

ZDT/CICS displays the ZDT/CICS Primary Option Menu.

10. For View (option 1), Edit (option 2), and Print (option 3.2, reached by means of Utilities, option 3), you must specify the **CICS Resource**. The **CICS Resource** option setting on the Primary Option Menu is not used by the other functions.

11. Select the option you want by typing the corresponding highlighted number on the command line.

For example, to edit a CICS file:

- a. Set the **CICS Resource** option to 1 (File).
- b. Type 2 (Edit) in the command line.
- c. Press Enter.

Related topics

[Z Data Tools for CICS Logon panels on page 123](#)

[Primary Option Menu panels on page 133](#)

Checking your ZDT/CICS version

To display the full version information for ZDT/CICS, enter VER on the command line of any panel. The current ZDT/CICS version number and the PTF number for each Z Data Tools component is displayed in a window. The window also indicates whether or not ZDT/CICS is APF-authorized.

Figure 3. Window showing the current ZDT/CICS version number and PTF information

Process	Options	Help
ZDT/CICS	Primary Option Menu	
HCL Z Data Tools Version x Release x Modification x CICS Component (not APF authorized)		
Service Levels of installed components		
English	Base xxxxxxx	IMS xxxxxxx
	Db2 xxxxxxx	CICS xxxxxxx
		HFI xxxxxxx
PF 1=HELP	2=TOP	3=END
PF 7=UP	8=DOWN	9=PRINT
	4=RETURN	10=LEFT
	5=BOTTOM	11=RIGHT
	6=LOCATE	12=CRETRIEV
Command ==> ver		
F1=Help	F3=Exit	F4=CRetrieV
F12=Cancel	F7=Backward	F8=Forward
	F10=Actions	

Related topics

[VER primary command on page 85](#)

Checking the level of connected CICS systems

To display the level of connected CICS systems, enter VERCICS on the command line of any panel. The current level for each connected CICS system is displayed in a window.

The VERCICS command queries the version, PTF, and level information of ZDT/CICS on the local and connected CICS regions. The retrieved information is then compared against the version, PTF, and level of the running Z Data Tools batch job and the results are displayed. Any ZDT/CICS value that differs from the Z Data Tools batch job is also highlighted.

Any difference in version, PTF, or level can cause a failure due to services not being available in the downlevel instances. A difference might be due to maintenance not being applied to the ZDT/CICS instance or the ZDT/CICS programs might not have been refreshed in the CICS region after maintenance was applied.

Figure 4. Window showing the level of connected CICS systems

Process	Options	Help
ZDT/CICS		
Primary Option Menu		
CICS Levels		
HCL Z Data Tools Version x Release x CICS Component		
Current PTF: V8GAD4B Level: 2		
Connected ZDT/CICS levels		
Sysid	Applid	Version PTF Level
	xxxxxxx	xxxx xxxxxx x
xxxx	xxxxxxx	xxxx xxxxxx x
xxxx	xxxxxxx	xxxx xxxxxx x
Command ==>		
F1=Help	F3=Exit	F4=CRetrieval F7=Backward F8=Forward F10=Actions
F12=Cancel		
F12=Cancel		

In the above example, there are 2 connected CICS regions all at the same level. If the level or version are different, these values are highlighted in *red*. To avoid unforeseen errors, ensure that all connected systems are running the same level of Z Data Tools.

If program HFM3LVL is not available on a connected system, the text "LOAD ERROR condition" is displayed. In this case, check that HFM3LVL can be loaded on the connected CICS region and retry the VERCICS command.

Related topics

[VERCICS primary command on page 86](#)

Exiting from ZDT/CICS

To exit from ZDT/CICS from the Primary Options Menu panel, do one of the following:

- Press the Exit function key (F3)
- Enter **X** (or **EXIT** or **END**) on the command line
- Select **Process> Exit** from the Action Bar

To exit the application from *any* panel within ZDT/CICS:

- Enter `=X` (or `=EXIT` or `=END`) on the command line.

Using the ZDT/CICS interface

The ZDT/CICS interface is based upon the ISPF model, using Z Common Components. Tasks are performed by processing a function, together with its applicable parameters. Panels provide a user-friendly way of selecting a function and supplying the parameter information.

Moving from panel to panel

You move from panel to panel in ZDT/CICS in the same way as you do under ISPF. That is, you launch processing panels from menu panels, by entering the appropriate menu option number on the command line. ZDT/CICS uses a Primary Options Menu panel to provide access to processing panels that are related to a particular function or group of functions. In some cases, an option on the Primary Options menu leads to another menu panel, from which you can select the required processing panel.

When you know the menu structure well, you can quickly jump to the required panel by entering the full pathway through the menu options. For example, entering `3.2` from the Primary Option Menu panel takes you to one of the Print Entry panels. Entering a relative path in this way allows you "jump over" intermediary panels that you would otherwise need to navigate through.

You can also jump to any ZDT/CICS panel from any other panel, without having to navigate the menu structure, by using an equals sign (=) to prefix the option number. The equals sign instructs ZDT/CICS to start the menu navigation from the Primary Options Menu panel and not from your current location. For example, if you are positioned on the Utility Functions panel, entering `2` on the command line displays the Print CICS File Entry panel (option 2 on the current menu), while entering `=2` displays the Edit CICS File Entry panel (option 2 on the Primary Options Menu panel).

To access a panel, choose one of the following methods:

- If necessary, navigate your way back to the Primary Option Menu panel (by pressing the Exit function key (F3) one or more times), then type the menu option number on the Command line and press Enter. Repeat for each nested menu until the required processing panel is displayed.
- Type an equals sign followed by the complete menu path to the required panel, separating each menu level with a period, then press Enter.

To exit from any panel, choose one of the following:

- Press the Exit function key (F3).
- Type `END` on the on the Command line and press Enter.

Showing more information on a panel

Many ZDT/CICS panels have more information than can be seen in a single screen, particularly when you are running in 80x24 display. When this happens, a message (`More: +`) is displayed in the top right corner of the panel.

Figure 5. Example panel showing "More" message

Process	Options	Help
ZDT/CICS	Print CICS File Entry Panel	
		More: +
Input CICS VSAM File:		
File name	. . . . .
Sysid	. . . . .
Start key	. . . . .	key or slot
Skip count	. . . . .	number of records to be skipped
Print count	. . . . . ALL	number of records to be printed
:		

To scroll down the panel, choose one of these methods:

- Press the Forward function key (F8) (this scrolls down by your default scroll amount, usually one screen at a time).
- Enter DOWN on the command line (this command scrolls down by your default scroll amount, usually one screen at a time).

To scroll back to the top of the panel, choose one of these methods:

- Press the Backward function key (F7) (this scrolls up by your default scroll amount, usually one screen at a time).
- Enter UP on the command line (this command scrolls up by your default scroll amount, usually one screen at a time).

Related topics

[Primary Option Menu panels on page 133](#)

Scrollable input and display fields for long names

Some ZDT/CICS panels have *scrollable fields* that allow you to input or view longer values than can be displayed at the one time.

There are two types of scrollable fields on ZDT/CICS panels:

Input fields

The fields on ZDT/CICS panels where you can *enter* information, such as the start position on the Browse, Edit, or View entry panels.

Display fields

The fields on ZDT/CICS panels that *display* information as a result of some action you have taken.

Scrollable fields have one of the following characters after the end of the entry field:

+

Plus sign. Indicates the field is scrollable to the right

-

Minus sign. Indicates the field is scrollable to the left

+-

Plus sign and minus sign. Indicates the field is scrollable to the right or left

If the length of the field displayed on the panel is insufficient for the value you want to input or view, you can either:

- Progressively scroll to the right with the Right function key (F11) or by entering the RIGHT primary command (with the cursor positioned within the field), or
- Press the Expand function key (F4) if available, or enter the EXPAND or ZEXPAND primary command, to display a pop-up window that allows you to input or view the whole field.

In the expand pop-up window, you can toggle the view of the data between character and hex by issuing the commands HEX OFF and HEX ON.

Deleting data in scrollable input fields

If you want to delete all the data in a field that is displayed as a scrollable input field, take care to ensure that you do, in fact, delete all the data (and not just the displayed data).

If you use the field delete key combination to delete data, ZDT/CICS deletes only the data that is currently displayed. If the field contains more data than is displayed, the undisplayed data is left undeleted.



Tip: Before deleting data in a field that is displayed as a scrollable field, first display the entire contents of the field by pressing the Expand function key (F4) or entering the EXPAND primary command. You can then use the field delete key combination to delete all data in the field at once.

For more information about working with scrollable fields, see the section "Primary commands for scrollable fields" in the *ISPF Dialog Developer's Guide and Reference*.

Issuing commands

Within the ZDT/CICS panels, you can use "primary" and "prefix" commands to instruct ZDT/CICS to perform an action.

You enter *primary* commands on the command line of ZDT/CICS panels. On many of these panels, the most commonly used primary commands have been assigned to function keys, also known as Programmable Function keys or PF keys.

Some primary commands are exclusive to a particular panel, although most are available on several panels. Where a command is available on more than one panel, its behavior might differ depending upon the context in which it is used.

You can enter *prefix* commands in the prefix field provided in most panels, and in the prefix area within the Edit panel. Prefix commands are generally exclusive to a panel and details of their operation are provided within each panel description.

Related topics

[ZDT/CICS primary commands on page 83](#)

[Edit Entry panels on page 111](#)

Specifying resource names

Before we describe each function in detail, we need to describe how we specify a CICS resource to Z Data Tools. ZDT/CICS provides specific functions to process your CICS resources. These are referred to as CICS ONLY functions.

When entering the CICS ONLY resource name, the following applies:

Resource name

- 1–8 character file name
- 1–16 character temporary storage queue
- 1–4 character transient data queue

The resource name is used in conjunction with SYSID and POOLNAME (TS queues only) to produce a list of matching resources.

You can enter a fully-qualified or generic resource name. In a generic resource, use the percent sign (%) to represent a single character, and an asterisk (*) to represent any number of characters.

CICS temporary storage and transient data queue names can be mixed-case. Therefore, the resource name input fields for these resource types throughout the ZDT/CICS interface are case sensitive.

Also, CICS temporary storage queue names can contain unprintable characters. To view or enter the TS queue name in hex, place the cursor on the queue name input field and enter the EXPAND primary command (or equivalent function key). Enter the HEX ON command from within the expand pop-up panel to view and enter hex values.

SYSID

Default value is blank. This field contains the ID of the CICS systems where the resource resides. A blank value defaults to the local system. You can enter a fully-qualified or generic SYSID. In a generic SYSID, use the percent sign (%) to represent a single character, and an asterisk (*) to represent any number of characters.



Note: ZDT/CICS can process CICS resources that are owned by a region other than the region where ZDT/CICS is running if:

- An active connection between the current region where ZDT/CICS is running and the remote region that owns the resource is active, and
- The ZDT/CICS program, HFM3CICS, is available on the remote region.

To process a remote CICS resource, you must specify the SYSID that owns the resource on the ZDT/CICS panels (generics are allowed). A remote definition on the local CICS region for the remote resource is not required by ZDT/CICS. In addition, specifying a blank SYSID value for a remote CICS resource that is owned by another region causes "not found" condition.

For further information, see the *Z Data Tools Customization Guide*.

TS Pool name

(TS Data sharing only.) Default value is blank. This field is used to specify the pool name of a shared temporary storage pool and temporary storage processing is shipped to a temporary storage server that manages the pool. You can enter a fully-qualified or generic pool name. In a generic pool name, use the percent sign (%) to represent a single character, and an asterisk (*) to represent any number of characters.

If you specify a **SYSID** value *and* a **TS Pool name**, then a list of queues that match either is produced from which you can select the appropriate queue for processing.

A resource selection list is produced when any one of the following conditions is met:

- A generic resource name is entered
- A generic sysid value is entered
- A generic pool name is entered (temporary storage only)
- A pool name and sysid value are both specified (temporary storage only)

Specifying a data set and a member name

Some ZDT/CICS panels require you to specify the data set that you wish to use for a copybook or template. When the data set is a PDS or a CA-Panvalet or other external library, you must also specify the member name.

Figure 6. Data set name specification fields

```

:
: Copybook or Template:
:   Data set name  . . . _____
:   Member . . . . . _____ Blank or pattern for member list
:

```

To specify your copybook or template:

1. In the **Data set name** field, enter a fully-qualified data set name or a name pattern. The name may include a member name or name pattern in parenthesis. If the member is specified here, the associated **Member** field must be empty.

In the case of a copybook, this can be the name of a CA-Panvalet library or external library accessed using the Library Management System Exit.

If you do not enclose the data set name in quotation marks, then the default High Level Qualifier (HLQ) is used. The HLQ is specified in the **Prefix** field on the Z Data Tools for CICS Logon panel.

If you enter a pattern, when the panel is processed ZDT/CICS displays a list of the data sets that match the pattern.

Patterns can contain a percent sign (%) to represent a single character, and an asterisk (*) to represent any number of characters within one qualifier. Two asterisks (**) represent any number of characters within any number of qualifiers.

For performance reasons, you should qualify the data set name as much as you can.

2. If you specified the name of a partitioned data set (PDS) or a CA-Panvalet or other external library in the **Data set name** field (without including a member name or name pattern in parenthesis), then enter a name or name pattern in the **Member** field.

A member name pattern can consist of any characters that are valid in a member name and the following two special pattern characters:

asterisk (*)

Represents any number of characters. As many asterisks as required can appear anywhere in a member name. For example, if you enter `*d*`, a list of all members in the data set whose name contains "d" is displayed.

percent sign (%)

A place-holding character representing a single character. As many percent symbols as necessary may appear anywhere in a member name. For example, if you enter `%%%`, a list of all members in the data set whose name is four characters in length is displayed.

If you perform either of these actions:

- Do not include a member name or name pattern in parenthesis in the **Data set name field**, and leave the **Member** field blank or you specify a pattern in the **Member** field,
- Include a member name pattern in parenthesis in the **Data set name field** and leave the **Member** field blank,

ZDT/CICS displays a member name list when the panel is processed and the data set has been specified or selected.

3. Complete the remaining panel-specific fields, and then press Enter to process the panel function.

If both the data set name and the member name have been fully specified, the panel action proceeds to its next stage.

If you entered a pattern for the data set name or member name, the data set selection panel is displayed, followed by the member selection panel, as needed. When you have made your selections from these panels, the Entry panel action proceeds to its next stage.

4. When the data set selection panel is displayed, select your data set by entering an **s** in the **Sel** field adjacent to the required data set. You can only select one name from this list.
5. When the member selection panel is displayed, select a member by typing an **s** in the **Sel** field next to the member or with the SELECT primary command, and then pressing Enter.

Because you are selecting a copybook or template, you select only one name.



Note:

- a. To reset values entered in the prefix area that have not yet been processed, use the RESET primary command.
 - b. To re-read the directory and display the current member list, use the REFRESH primary command.
6. When you are selecting a member, you might find it useful to sort the list of displayed members. To do this, perform one of these actions:
 - Use the SORT primary command to sort the member list by up to two of the displayed columns. The field names are the column headings. For example, `SORT SIZE CREATED` sorts the list of members first by size and then by the date created.
 - Place the cursor on the column header of the column you want to sort and press Enter.



Note: When you sort members, the sequence (ascending or descending) for a given column is predetermined and consistent with ISPF.

Examples of data set name patterns

The examples below assume that the following data sets exist under the USERID high-level qualifier:

```
USERID.HFM.DATA
USERID.HFM.TEMPLATES
USERID.COBOL.COPY
USERID.COBOL.SOURCE
USERID.PLI.COPY
USERID.PLI.SOURCE
USERID.MISC.DATA.BACKUP
USERID.WORK
```

Example 1

Entering the following pattern (with a single asterisk):

```
'USERID.*'
```

displays the only item with exactly one level of qualifier after USERID:

```
USERID.WORK
```

Example 2

Entering the following pattern (with two asterisks):

```
'USERID.**'
```

displays the complete list of data sets with the USERID high-level qualifier.

Example 3

Entering the following pattern:

```
'USERID.*.%%%'
```

displays the following list (containing those data sets with exactly three qualifiers, whose third-level qualifier contains exactly four characters):

```
USERID.HFM.DATA  
USERID.COBO.L.COPY  
USERID.PLI.COPY
```

Examples of specifying a member name or pattern

The examples below assume that the following members exist within the data set name, HFMUSER.DATA:

```
DATA1  
HFMCDATA  
HFMCTAM  
HFMCTEM  
HFMCTMP  
NEWDATA  
NEWSTUFF  
TEMPA  
TEMPB
```

Example 1

Entering the following details on a panel:

```
⋮  
  Data set name . . . . . HFMUSER.DATA  
  Member      . . . . . _____  
⋮
```

displays the entire member name list:

```
DATA1  
HFMCDATA  
HFMCTAM  
HFMCTEM  
HFMCTMP  
NEWDATA  
NEWSTUFF
```

```

TEMPA
TEMPB

```

Example 2

Entering the following details on a panel:

```

:
:  Data set name . . . . . HFMUSER.DATA
:  Member      . . . . . HFMCT*
:

```

displays the member name list:

```

HFMCTAM
HFMCTEM
HFMCTMP

```

Example 3

Entering the following details on a panel:

```

:
:  Data set name . . . . . HFMUSER.DATA(NEWDATA)
:  Member      . . . . .
:

```

uses the specified template or cookbook NEWDATA in data set HFMUSER.DATA.

Example 4

Entering the following details on an Entry panel:

```

:
:  Data set name . . . . . HFMUSER.DATA(TEM*)
:  Member      . . . . .
:

```

displays the member name list:

```

TEMPA
TEMPB

```

Example 5

Entering the following details on a panel:

```

:
:  Data set name . . . . . HFMUSER.DATA(*)
:  Member      . . . . .
:

```

displays the entire member name list:

```

DATA1
HFMCDATA
HFMCTAM
HFMCTEM
HFMCTMP
NEWDATA
NEWSTUFF

```

```
TEMPA
TEMPB
```

Specifying quoted strings

Throughout the ZDT/CICS interface, there are places where you need to specify a *quoted string*, for example, fully qualified data set names. In these situations, you can use either the double quotation symbol ("), also called simply a quotation mark, or the single quotation symbol ('), also called an apostrophe. However, you must use matching symbols to open and close the quoted string. For example:

- `"fmndata.test1"` and `'fmndata.test1'` are both legitimate ways to specify a data set.
- `"fmndata.test1'` or `'fmndata.test1"` are rejected.

The simplest way to include an apostrophe or quotation symbol as a character is to use the opposite character as the string delimiters. For example:

```
"it's"
OR
'he said, "hello"'
```

When your string contains a mix of apostrophes and quotation marks, use two consecutive quotation marks (""") to represent a " character within a string delimited by quotation marks, or two consecutive apostrophes (') to represent a ' character within a string delimited by single quotation marks. For example, to find the string, "he said, "Take it it's yours.", you would type:

```
FIND 'he said, "Take it it''s yours."'
```



Note: In this document the words *quotation marks* or *quotes* mean either " or '.

Using hexadecimal values in ZDT/CICS

In many ZDT/CICS panels, you can view and enter decimal values as text characters or as hexadecimal values. To help you quickly convert decimal values to hexadecimal or hexadecimal values to decimal values, ZDT/CICS provides a simple converter tool, in the form of two primary commands.

To convert a decimal value to its equivalent hexadecimal value:

1. On the command line of any panel, enter `DX` followed by the decimal value.

ZDT/CICS displays the results in a message at the bottom of your screen.

For example, if you enter `DX 10` on a ZDT/CICS command line, then ZDT/CICS displays the following message box:

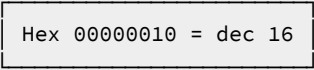
```
Dec 10 = hex 0000000A
```

To convert a hexadecimal value to its equivalent decimal value:

1. On the command line of any panel, enter `XD` followed by the hexadecimal value.

ZDT/CICS displays the results in a message at the bottom of your screen.

For example, if you enter `XD 10` on a ZDT/CICS command line, then ZDT/CICS displays the following message box:



Hex 00000010 = dec 16

Related topics

[DX primary command on page 83](#)

[XD primary command on page 86](#)

Getting help

ZDT/CICS offers two levels of help information: context-sensitive field information and Tutorial Help. The field help information provides a description of your current field, lists the valid values or range of values that can be entered, and gives the default field value where applicable. Tutorial Help is a context-sensitive help system that provides detailed explanations of the ZDT/CICS panels and the processes in which they are used. In addition, all error messages have an associated full text explanation, which can help you to determine the cause of a problem.

Displaying field help information

To display the field help information:

1. Place your cursor on the field entry line.
2. Press the Help function key (F1). The field help information is displayed in a pop-up window.

If further information is needed, press the Extended Help function key (F5), to access the Tutorial Help page for the current panel.

Pressing Help while the field information window is displayed takes you to the Help Tutorial page within the Tutorial Help system (that is, the page that describes how to use Tutorial Help).

3. When you have finished reading the message or the relevant Tutorial Help page, press the Exit function key (F3) to return to your starting panel.

For example, [Figure 7: Field help information for the Sysid field on page 31](#) shows the message seen when F1 is pressed from the **Sysid** field in the Edit CICS File Entry panel.

Figure 7. Field help information for the Sysid field

Process	Options	Help

ZDT/CICS	Edit CICS File Entry Panel	
Input CICS VSAM File:		
File name	_____	
Sysid	_____ CICS Sysid _____	
Start posit	_____	
Record limi	_____	
Inplace edi	_____	
Lock resour	_____	
Copybook or Te	_____	
Data set na	_____	
Member . .	_____	
Processing Opt	_____	
Copybook/temp	_____	
3 1. Above	_____	
2. Previou	_____	
3. None	_____	
4. Create	_____	
Command ==>	_____	
F1=Help	F3=Exit	F4=Resize F5=Ex-help F6=Keyshelp
F11=Right	F7=PrvPage F8=NxtPage	F10=PrvPage F11=NxtPage
F12=Cancel	_____	

Accessing Tutorial Help

The Tutorial Help system is both context-sensitive and structurally organized. You can get directly to the information you need, using the context-sensitive access method or you can enter the Help system at a specific location and navigate to any topic information within the structure.

To access a context-sensitive Tutorial Help page:

1. Place your cursor on the Command Line or anywhere in the panel that is outside of a field entry line.
2. Press F1. The Tutorial Help page associated with the current panel is displayed.

When you access the Tutorial Help in this way, the first page that is displayed may be a main topic page, with a menu listing the associated sub-topics, or it may be a sub-topic page, depending upon the context from which you started.

3. Navigate through the Tutorial Help pages, to find the information you require (see below for a list of navigation commands).
4. When you have finished, press F3 (Exit) to return to your starting panel.

The Tutorial Help system is organized with a Table of Contents structure that is based upon the ZDT/CICS Primary Options menu. Each entry within the Table of Contents leads to a main topic with a number of associated sub-topics. In addition, there is an index that lists selected topics from the Tutorial Help, alphabetically by subject.

To choose your starting point in Tutorial Help:

1. Select the Help pull-down menu from any panel Action Bar.
2. Enter the option number for the Tutorial Help entry point that you require. These are:

1. Help for help

Displays the Help panel for the Tutorial Help system.

2. Extended help

Displays the Tutorial Help panel associated with the current ZDT/CICS panel (equivalent to pressing F1 from the ZDT/CICS panel). When on the Primary Options menu, this is the Tutorial Help Table of Contents panel.

3. Keys help

Displays a panel that provides help for the Function Keys that are active on the current ZDT/CICS panel.

4. Help index

Displays the Help Index.

5. Tutorial

Displays the Tutorial Help Table of Contents panel.

6. About

Displays the ZDT/CICS version and release information in a pop-up window.

7. News about ZDT/CICS

Displays a panels providing general information about the current ZDT/CICS version/release.

To navigate Tutorial Help, enter one of the following commands in the Command line on any Tutorial page:

BACK or B

To back up to the previously viewed page.

SKIP or S

To skip the current topic and go on to the next topic.

UP or U

To display a higher level list of topics.

TOC or T

To display the Table of Contents.

INDEX or I

To display the Tutorial Index. Once the Index has been displayed, use the RIGHT (F11) and LEFT (F10) keys to scroll through the list, then position your cursor on a subject and press ENTER (Ctrl) to display the topic.

Alternatively, you may use the following keys whenever you are in the tutorial:

ENTER (Ctrl)

To display the next sequential page within a topic.

HELP (F1)

To display the Help Tutorial page within the Tutorial Help system (that is, the page that describes how to use Tutorial Help).

END (F3)

To terminate the tutorial.

UP (F7)

To display a higher level list of topics (instead of typing UP).

DOWN (F8)

To skip to the next topic (instead of typing SKIP).

RIGHT (F11)

To display the next sequential page within a topic (instead of pressing ENTER).

LEFT (F10)

To display the previous sequential page within a topic (instead of typing BACK).



Note: The listed keys are the default key mappings. As you can customize key mappings, they may be different on your system.

Viewing error messages

If an error occurs when ZDT/CICS attempts to process a panel, a short text message displays in the upper right corner of the screen. While this message is displayed, pressing F1 displays the expanded text of the error message at the bottom of the screen.

Figure 8: Utility Functions panel showing expanded message on page 33 shows the short text message "Empty print data set" (in upper right corner) with the expanded text (shown in bold) at the bottom of the screen.

Figure 8. Utility Functions panel showing expanded message

Process	Options	Help	Utility Functions	Empty print data set
ZDT/CICS				
0	DBCS	Set DBCS data format for print		
2	Print	Print data		
4	List	List resources		
5	Printdsn	Browse ZDT/CICS print data set		
6	Audit trail	Print audit trail report		
Processing Options:				
CICS Resource				
1	1. File			
	2. Temporary Storage			
	3. Transient Data			
The PRINTDSN print data set HFMUSERHFMCIICS.LIST is empty				
Command ==>				
F1=Help	F3=Exit	F4=CRetrie	F7=Backward	F8=Forward
F12=Cancel			F10=Actions	

Customizing your ZDT/CICS session

You can customize ZDT/CICS so that its behavior is best suited to your needs. The following sections describe how you can change your screen layout and function key values.

Hiding or showing PF key descriptions

Use the PFSHOW primary command (from any ZDT/CICS panel) to either show or hide the PF key descriptions on ZDT/CICS panels.

- To *show* the PF key descriptions, type `PFSHOW ON` on the command line and press Enter.
- To *hide* the PF key descriptions, type `PFSHOW OFF` on the command line and press Enter.
- To *toggle* between showing or hiding the PF key descriptions, type `PFSHOW` on the command line and press Enter.

Related topics

[PFSHOW primary command on page 84](#)

Changing terminal characteristics

Use the SETTINGS primary command (from any ZDT/CICS panel) to change various options and terminal characteristics that affect the way information is displayed on your screen.

You can enter the SETTINGS primary command directly, or select it from the Options pull-down menu.

When you enter the SETTINGS primary command, ZDT/CICS displays the ZCC Settings panel.

On the ZCC Settings panel, set the Z Common Components settings according to your needs:

Command line at bottom

Enter a "/" to place the command line and long message line at the bottom of your panel. Deselecting the option places the command line and long message line as they are specified in your panel definition (usually at the top of the panel).

Panel display CUA mode

Enter a "/" to display the panel in CUA mode. Action bars are displayed. The action bars are not displayed if you deselect the option.

Tab to action bar choices

Enter a "/" to use the Tab key to position the cursor on action bar choices when not running in GUI mode.

Replace the "/" with a blank to NOT use the Tab key to position the cursor on action bar choices.

Graphic border

If the action bar separator line or borders are not displayed correctly, you can force dotted lines by deselecting the graphic border option.

Screen format

Specify the screen format you require by typing a value (1–3).



Note: Changing to 24x80 (STD) display may not change the screen size for expandable panels that have been previously displayed with the DATA or MAX option.

Terminal type

Specify the terminal type you require by typing a value (1–2).

Related topics

[SETTINGS primary command on page 85](#)

[ZCC Settings panel on page 130](#)

Changing panel colors, intensity, and highlighting

Use the CUAATTR primary command (from any ZDT/CICS panel) to adjust panel colors, intensity, and highlighting.

When you enter the CUAATTR primary command, ZDT/CICS displays the Change CUA Attributes panel.

On the Change CUA Attributes panel, you can change the existing values by overtyping with any of the following values:

Color	Intensity	Highlight
RED	HIGH	NONE
PINK	LOW	BLINK
GREEN		REVERSE
YELLOW		USCORE
BLUE		
TURQ (turquoise)		
WHITE		

To restore a default value, clear the field and press Enter. To restore all default values, press F2 (Reset).

Related topics

[CUAATTR primary command on page 83](#)

[Change CUA Attributes panel on page 97](#)

Changing the current key list values

Use the KEYS primary command from any ZDT/CICS panel to display and modify the keys for the current function.

When you enter the KEYS primary command, ZDT/CICS displays the HFM Keylist Change panel.

On the HFM Keylist Change panel, set the keys for the current function according to your needs.

Related topics

[KEYS primary command on page 84](#)

[HFM Keylist Change panel on page 125](#)

Setting your default processing options

Many of the processing operations performed by Z Data Tools utilize default values that can be set from within the ZDT/CICS application. By adjusting these values, you can customize ZDT/CICS so that its behavior is best suited to your needs. Your settings for these options are stored in your Z Common Components profile, and are invoked when you log in, regardless of which workstation you use.

You can update these default values by accessing the relevant processing option panel.

To access a processing option panel, use any one of the following methods:

- From the Primary Options Menu panel:
 1. Select Option 0 (Settings). The Set Processing Options Menu panel is displayed.
 2. Select the required processing options type from the menu.
- From any ZDT/CICS panel, use the **Options** pull-down menu to select the required processing options type:

Figure 9. Options pull-down menu

Process	Options	Help
ZDT/CICS	1. Print settings 2. System settings 3. Compiler language selection 4. COBOL compiler specifications 5. HLASM compiler specifications 6. PL/I compiler specifications 7. Editor options 8. VSAM Edit sharing options 9. Temporary Data Set Allocations 10. Output Data Set Allocations 11. ZCC settings	User ID . : WAGHORN Appl ID . : HFM3 CICS User : CICSUSER CICS Appl : C62D2FM3 Date. . . : 2008/07/09
0 Settin		
1 View		
2 Edit		
3 Utilit		
4 Templa		
B ZDT		
ZI ZDT/IMS		
ZD ZDT/Db2		
X Exit		

Processing Options:
 CICS Resource
 3 1. File
 2. Temporary Storage
 3. Transient Data

Command ==> _____
 F1=Help F3=Exit F4=CRetriev F7=Backward F8=Forward F10=Actions
 F12=Cancel

- On the command line of any ZDT/CICS panel, enter an equals sign (=), followed by the option number for the required processing type. For example, to display the Compiler Language Selection panel, enter =0.3.

When you select an option processing type, Z Data Tools displays a panel listing those options and their current values. The following notes apply to all of these option panels:

- To change the value of an option, overwrite its current value.
- To save the options you have changed and exit the panel, press the Exit function key (F3).

Changes are saved in your Z Common Components user profile for future ZDT/CICS sessions. They remain in effect until you change the option again.

- To exit a panel without saving changes, press the Cancel function key (F12).
- To reset all options on the panel to their installation defaults, enter `RESET` on the command line.

Related topics

[Primary Option Menu panels on page 133](#)

[Set Processing Options panel on page 142](#)

Setting your System Processing Options

You set any of the processing options on the Set Processing Options panel (within ZDT/CICS) using the Z Data Tools "base" product, if authorized. When you select an option on the Set Processing Options panel, the relevant "base" Z Data Tools panel is displayed.

For example, when you select option 1 (Print) on the Set Processing Options panel (from within ZDT/CICS), Z Data Tools displays the Set Print Processing Options panel from within "base" Z Data Tools.

To find information about each processing option on the Set Processing Options panel, see the relevant section in the Z Data Tools User's Guide and Reference as shown in [Table 1: Sections in the base User's Guide and Reference describing processing options on page 37](#).

Table 1. Sections in the base User's Guide and Reference describing processing options

To find out more about this option on the ZDT/CICS Set Processing Options panel...	See this section in the base <i>User's Guide and Reference</i> ...
Print	<i>"Printing from Z Data Tools"</i>
System	<i>"Setting your default processing options"</i>
LANG	<i>"Setting your template processing options"</i>
COBOL	<i>"Setting your COBOL processing options"</i>
HLASM	<i>"Setting your HLASM processing options"</i>
PL/I	<i>"Setting your PL/I processing options"</i>
EDIT	<i>"Editor options (option 0.6)"</i>
Sharing	<i>"VSAM edit sharing options (option 0.7)"</i>
Temporary	<i>"Temporary Data Set Allocations (option 0.8)"</i>

Table 1. Sections in the base User's Guide and Reference describing processing options (continued)

To find out more about this option on the ZDT/CICS Set Processing Options panel...	See this section in the base <i>User's Guide and Reference...</i>
Output	<i>"Output Data Set Allocations (option 0.9)"</i>

Related topics

[Set Processing Options panel on page 142](#)

Running Z Data Tools "base" functions against CICS resources

If you choose the ZDT option from the Primary Options Menu panel, you start the Z Data Tools Base product in a CICS environment. The main enhancement provided in the CICS environment is that you can run the Z Data Tools Base utilities, such as Data Set Copy and Data Set Compare, using CICS resources.

Specifying resource names in Z Data Tools ("base")

The following functions in Z Data Tools (option "HFM" on the Primary Options Menu panel within ZDT/CICS) also accept a CICS resource name in the primary data set field as well as the supported MVS data set names.



Note: The options below are from the Z Data Tools ("base") main menu, not the ZDT/CICS main menu.

Function	Option
View	1
Edit	2
Data create	3.1
Print	3.2
Copy	3.3
Find/Change	3.6
Compare	3.11

To distinguish the CICS resource name from an MVS data set name, the following prefixes (including the colon character) are used:

FI:

CICS file

TS:

CICS temporary storage queue

TD:

CICS transient data queue

The name following the resource follows the same rules as the resource names described above. For example, you could specify `FI:CICSFI01`.



Note: Z Data Tools ("base") functions can only be used with local CICS resources (resources owned by the CICS region running ZDT/CICS).

A resource selection list is produced when a generic resource name is entered.

Related topics

[Primary Option Menu panels on page 133](#)

Running Z Data Tools IMS component under ZDT/CICS

There are no differences between the ZDT/IMS function running under ISPF and running under CICS. It is especially important to note that Z Data Tools does not access CICS resources related to IMS.

Running Z Data Tools Db2 component under ZDT/CICS

These Z Data Tools Db2 functions are not available when running under CICS:

- ZDT/Db2 Object Functions (option 3.2).
- ZDT/Db2 Utility Job Generation (option 3.9).
- ZDT/Db2 Interactive Db2 (option 5).
- ZDT/Db2 line commands EE, VE, and RE which start another ZDT/Db2 session.

Chapter 4. Viewing and changing CICS resources

To view data stored in a CICS file, use the ZDT/CICS View Utility or the ZDT/CICS Edit Utility:

View Utility

The View Utility (option 1) allows you to view and temporarily change the data, but without the ability to save any changes.

When you initiate the ZDT/CICS editor with the View Utility, this is referred to as being in a "View editor session" (or just "View").

The view function, similar to ISPF view, provides an editor session that works essentially the same as the Edit Utility, but without the need for exclusive access to the data set. It presents you with an interface that is capable of holding your temporary changes to data. This may be useful, for example, for assessing a change but without any risk of altering live data.

The first time you make a change to the data in a View editor session, ZDT/CICS displays the following warning:

Save is not possible in a View session. Use Edit if you want to be able to save changes.

When you exit from a View editor session by pressing the Exit function key (F3), if you have made a change to the data in the editor session, ZDT/CICS displays a warning as shown in [Figure 10: Warning pop-up displayed when exiting from a View editor session if changes made to data on page 40](#).

Figure 10. Warning pop-up displayed when exiting from a View editor session if changes made to data

```
View Warning
-----
ssssssssssssss
                You are currently in Data View mode:
top
Format TABL
Press Enter to confirm exit from View. No changes will be
saved.
+
Enter the END or EXIT command to return to View, where you
-4-----5--
can use the CREATE or REPLACE commands to save your
changes.
AAAAAAAAAAAAAA
Command ==>
F1=Help      F3=Exit      F7=Backward F8=Forward
AAAAAAAAAAAAAA
F12=Cancel
AAAAAAAAAAAAAA
AAAAAAAAAAAAAA
:
```

Edit Utility

The Edit Utility (option 2) allows you to view and change your data (by inserting, deleting, or otherwise modifying records), and save any changes you make.

When you initiate the ZDT/CICS editor with the Edit Utility, this is referred to as being in an "Edit editor session" (or just "Edit").

ZDT/CICS Browse

ZDT/CICS Browse allows you to view CICS data, but without the ability to save any changes.

When you start up the ZDT/CICS editor in browse mode, this is referred to as being in a "Browse editor session" (or just "Browse").

From a list of ZDT/CICS resources, to start up a Browse editor session, enter the prefix command, B.

When you start up a Browse editor session, ZDT/CICS displays the relevant ZDT/CICS Browse entry panel.

Related references

[Initiating a ZDT/CICS Browse editor session from a display list on page 51](#)

[Browse Entry panels on page 91](#)

These instructions are given within the context of the ZDT/CICS editor. In most cases, you can perform these actions in either Edit or View, in which case the term "editor" is used. Similarly, the term "editor session" can indicate either a View editor session or an Edit editor session.

To display one of the View Entry panels, select option 1 ("View") from the ZDT/CICS Primary Options Menu panel.

To display one of the Edit Entry panels, select option 2 ("Edit") from the ZDT/CICS Primary Options Menu panel.

You can view or edit a CICS resource with a number of formats. You can use a copybook or template to provide a logical view of the data set. The logical view describes the field format of the records. In addition, a template can be used to:

- Select the records to be displayed.
- Select the fields to be displayed.
- Format how the fields are displayed.

The ZDT/CICS editor displays a full screen of data, and allows you to overwrite the data that is displayed. You can scroll the data in any direction: backward, forward, left, and right. It allows you to perform general editing operations by entering primary commands in the command field of the display. It also allows you to perform record-oriented operations by entering prefix commands in the prefix area of the display.



Note: Once the ZDT/CICS editor is started, the way in which you use the editor (commands, template usage, PF keys, and so on) is the same as for Z Data Tools ("base"). For further information about using the browser, see *"Viewing and changing data sets"* in the *Z Data Tools User's Guide and Reference*.

Related topics

[Primary Option Menu panels on page 133](#)

[View Entry panels on page 145](#)

[Edit Entry panels on page 111](#)

Editing CICS files

To edit a CICS file in View:

1. Select **1. File** on the Primary Option Menu panel.
2. Type 1 on the command line.
3. Press Enter.

ZDT/CICS displays the View CICS File Entry panel.

To edit a CICS file in Edit:

1. Select **1. File** on the Primary Option Menu panel.
2. Type 2 on the command line.
3. Press Enter.

ZDT/CICS displays the Edit CICS File Entry panel.

You can view CICS VSAM files that have browse and read access.

For Edit, CICS VSAM files must have update access. Full editing capability (inserts/deletes) is available for KSDS files that have add and delete attributes. All other files are in place editing only—new records can be appended to ESDS files, and slots can be deleted or new records can be inserted into empty slots for an RRDS.



Note: ZDT/CICS requests against CICS data tables not owned by the local CICS region always use function shipping (cross-memory services are not used).

BDAM files are not supported.

Related topics

[View Entry panels on page 145](#)

[Edit Entry panels on page 111](#)

Editing temporary storage

To edit temporary storage in View:

1. Select **2. Temporary Storage** on the Primary Option Menu panel.
2. Type 1 on the command line.

3. Press Enter.

ZDT/CICS displays the View Temporary Storage Entry panel.

To edit temporary storage in Edit:

1. Select **2. Temporary Storage** on the Primary Option Menu panel.
2. Type 2 on the command line.
3. Press Enter.

ZDT/CICS displays the Edit Temporary Storage Entry panel.

In View, you must specify the name of an existing queue.

In Edit, you can specify an existing or new queue name for temporary storage editing.

New queue name

If you specify a new queue name, you are asked to specify whether the queue location is to be in memory or auxiliary storage. An Edit session then commences with no records and you can insert new records. On completion of the Edit session, the queue is created with the records created during the Edit session.



Note: If the TS queue name matches the prefix of an existing TS model, it is allocated according to the attributes of the corresponding model. If the TS queue name does not match a prefix of a TS model, it is allocated in auxiliary storage.

However, if SYSID is not blank, the TS queue is defined on the specified CICS system either using a corresponding TS model on the remote system if a match exists, otherwise it is allocated in auxiliary storage on the remote system.

Existing queue name

ZDT/CICS attempts to read all the records into memory. In Edit, you can insert, delete, and change records and, on completion, ZDT/CICS deletes the existing queue and replaces it with the records from your Edit session. Any changes to the queue made by other applications are lost.

Other elements of the View and Edit functions are described in “*Viewing and changing data sets*” in the *Z Data Tools User's Guide and Reference*.

Related topics

[View Entry panels on page 145](#)

[Edit Entry panels on page 111](#)

Editing transient data queues

To edit transient data in View:

1. Select **3. Transient Data** on the Primary Option Menu panel.
2. Type 1 on the command line.
3. Press Enter.

ZDT/CICS displays the View Transient Data Entry panel.

To edit transient data in Edit:

1. Select **3. Transient Data** on the Primary Option Menu panel.
2. Type 2 on the command line.
3. Press Enter.

ZDT/CICS displays the Edit Transient Data Entry panel.

You can edit the following types of transient data queues:

Intrapartition

ZDT/CICS reads the entire queue into memory. You can edit or delete records or insert new ones.

In Edit, confirming exit causes a destructive read and restore of the transient data queue to occur. If another application added records to the queue during your Edit session, these records will be interspersed with the records from your Edit session.

In View, when you exit, you are given the option of restoring all the records read back to the queue. These records are appended to the existing queue if you select to rewrite the records.

Extrapartition

In Edit, you can only edit Extrapartition queues defined for output and you can only append records. The Edit session begins with no records and you can insert records. On completion, the records are appended to the queue.



Attention: If the queue is not defined to CICS with a disposition of MOD, closing and opening the queue erases all previous contents.

In View, you can only view Extrapartition queues defined for input.

Indirect

If the associated queue is the same as the above, then editing is supported as stated for those queues.

Related topics

[View Entry panels on page 145](#)

[Edit Entry panels on page 111](#)

Locking your CICS resource

ZDT/CICS uses standard CICS services to update and change resources. ZDT/CICS is also capable of issuing CICS enqueues to help you coordinate access against resources as described below.

ZDT/CICS-generated CICS enqueue

When editing a temporary storage queue or transient data queue with ZDT/CICS, a CICS enqueue using the following resource naming convention is issued:

```
FMLOCK:xxsysidname
```

Where:

xx

TD or TS depending on the type of queue being edited.

sysid

The ID of the CICS system where the queue resides. A blank value indicates the queue resides on the local system.

name

The name of the queue.

This CICS enqueue is issued to prevent multiple ZDT/CICS sessions on the same region from concurrently editing the same queue.

User-specified CICS enqueue

You can specify a 1–36 character CICS enqueue resource name that is issued for the duration of the Edit session for a file, TS queue, or TD queue by:

- Entering "/" in the **Lock resource** field
- Specifying a valid 1–36 character CICS enqueue resource name in the corresponding **Name** field

This user-specified CICS enqueue can be used to provide additional coordination for CICS resources accessed by ZDT/CICS and other applications that issue similar CICS enqueues. This enqueue is issued in addition to the ZDT/CICS-generated CICS enqueue for TS and TD queues.

ZDT/CICS issues CICS enqueues on the **local region only** (the CICS region where ZDT/CICS is running). An enqueue resource length of 255 is used and all unused characters are padded with spaces.

If ZDT/CICS issues an enqueue but receives a "busy" response, this indicates that a similar CICS enqueue has already been issued by another application. ZDT/CICS then displays the message "CICS resource locked" and terminates the Edit. To display further information about the active CICS enqueue, press F1. You can also list and display further CICS attributes for CICS enqueues by using the ZDT/CICS List utility. For further information, see [Working with CICS enqueues on page 53](#).

Chapter 5. Working with ZDT/CICS utilities

To display the Utility Functions panel, select option 3 ("Utilities") from the Primary Options Menu panel.

Some of the utilities you can select are Z Data Tools "base" utilities. The numbers of the options for the Z Data Tools "base" utilities match the equivalent options on the Z Data Tools ("base") Utilities Functions menu panel.

To find information about each utility on the Utility Functions panel, see the relevant section as shown in [Table 2: Sections describing utilities on page 46](#).

Table 2. Sections describing utilities

To find out more about this utility on the Primary Options Menu panel...	See this section...
0 DBCS	<i>"Set DBCS Format panel" in the Z Data Tools User's Guide and Reference</i>
2 Print	Printing a CICS resource on page 47
4 List	Working with lists of CICS resources on page 48
5 Printdsn	(Displays print output in full-screen mode)
6 Audit trail	<i>"Print Audit Trail panel" in the Z Data Tools User's Guide and Reference</i>

Related topics

[Primary Option Menu panels on page 133](#)

[Utility Functions panel on page 143](#)

Chapter 6. Printing a CICS resource

To display one of the Print Entry panels, select option 2 ("Print") from the ZDT/CICS Utility panel.

You can use the ZDT/CICS Print utility to print a CICS resource in a selected format. Data can be printed by record or by field if a template or copybook has been provided. Records can be selected for printing using the start key (VSAM only), skip and print count fields and a conditional expression defined in the template provided. The output for the Print function is controlled by the SET options.

The following restrictions apply when printing a CICS resource:

- CICS files: only VSAM files with read and browse access are supported.
- CICS extrapartition queues must be INPUT.



Note: After printing an intrapartition queue you are prompted to restore the queue items.

Other elements of the Print function are described in *"Printing from Z Data Tools"* in the *Z Data Tools User's Guide and Reference*.

Related topics

[Primary Option Menu panels on page 133](#)

[Print Entry panels on page 136](#)

Chapter 7. Working with lists of CICS resources

ZDT/CICS displays a list of CICS resources when you:

- **Specify a fully-qualified or generic resource name on the List CICS Resources Entry panel.**

To display the List CICS Resources Entry panel, select option 4 ("List") from the ZDT/CICS Utility panel.

The List CICS Resources Entry panel allows you to list resources that match a specified resource name and SYSID. You can modify the listed resources or perform functions such as Edit, View, and Print against any listed file or enqueue.

The type of resource selection list that ZDT/CICS displays when you press Enter is determined by the **CICS Resource** you selected on the List CICS Resources Entry panel.

- **Use a wildcard when specifying a CICS resource name on a ZDT/CICS entry panel.**

The type of resource selection list that ZDT/CICS displays when you press Enter is determined by the **CICS Resource** you selected on the ZDT/CICS entry panel.



Note: When you enter a wildcard on a ZDT/CICS entry panel, only the function from the previously displayed ZDT/CICS entry panel (view, edit, browse, or print) can be selected for the listed resource.

Related topics

[Utility Functions panel on page 143](#)

[List CICS Resources Entry panel on page 131](#)

Finding a string in a selection list

To find the next occurrence of a character string in the list being displayed, use the FIND primary command.

The cursor is placed in the prefix area of the line containing the found string and that line is made the top line.

To find the next occurrence of the same string, use the RFIND command, or enter the FIND command with no argument. A message is displayed if the string cannot be found.

Controlling the starting point, direction and extent of the search

You can qualify the search string with one of the following optional parameters before or after the search string: NEXT, PREV, FIRST, LAST. If you do not specify any parameter, or if you specify the NEXT parameter, the search begins at the cursor location (if the cursor is within the data portion of the display) or the beginning of the first record displayed, and searches ahead to find the next occurrence of the string.

If you specify the FIRST parameter, the search begins at the beginning of the list and searches ahead. If the LAST parameter is used, the search begins at the end of the list and searches backwards. If you specify the PREV

parameter, the search begins either at the cursor location (if the cursor is within the data portion of the display) or the beginning of the first record displayed, and searches backwards to find the string.

Related topics

[FIND primary command on page 86](#)

[RFIND primary command on page 89](#)

Searching the current primary sort order column

To search the current primary sort order column for an occurrence of a specified string, use the LOCATE primary command. The string syntax must be consistent with the target column for the LOCATE primary command. The LOCATE primary command positions to the top of the display the column value either equal to or closest value less than or greater than depending on the SORT order.

Related topics

[LOCATE primary command on page 88](#)

Viewing queue names with unprintable characters

CICS temporary storage queue names can contain unprintable characters. To view the hex value of the queue names listed on the CICS Temporary Storage Selection List panel, enter `HEX ON`. To suppress the hex values, enter `HEX OFF`.



Note: Only the TS queue selection list supports this command.

Figure 11: Queue names displayed in hex format on page 49 shows an example of queue names displayed in hex format.

Figure 11. Queue names displayed in hex format

Process	Options	Help								
ZDT/CICS		CICS Temporary Storage Selection List							Row 1 of 2	
Queue		Loc	Items	Size	Max	Min	Tran	Last	Sys	Pool
SAMP _ _	AUX		2	128	64	64	CECI	67		
ECDD440344444444 2147013400000000										
SAMP2é _	AUX		3	192	64	64	CECI	8		
ECDDF54344444444 2147211200000000										
**** End of data ****										

Related topics

[CICS Temporary Storage Selection List panel on page 105](#)

[HEX primary command on page 87](#)

Refreshing the current selection list

To refresh the current selection list, use the REFRESH primary command.

Related topics

[REFRESH primary command on page 88](#)

Changing resource attributes

On the CICS resource list or corresponding attributes panel, you can change any value that is underlined by overtyping the field and pressing Enter.

For example, to close a VSAM file from the CICS file selection list, type "c" in the open status column and press Enter.

All attribute changes requested through ZDT/CICS are performed by issuing the SET CICS command, and therefore must adhere to all CICS restrictions.

Related topics

[ZDT/CICS panels and fields on page 91](#)

Selecting items from a display list

To select items from a display list, use the SELECT primary command. The SELECT primary command performs the equivalent processing of the S prefix command against resource names matching the supplied pattern or resource name.

►► **Select** — *resource_name_pattern* ◄◄

resource_name_pattern

A resource name or pattern used to match resource names on the list.

Examples

SELECT TDM1

Selects the resource called TDM1.

S *

Selects all resources.

S A*

Selects all resources starting with "A".

S *Z

Selects all resources ending with the letter "Z".

Related topics

[SELECT primary command on page 89](#)

Initiating a ZDT/CICS Browse editor session from a display list

To initiate the ZDT/CICS editor in Browse mode from a display list, enter the prefix command, B, against the resource you want to browse. ZDT/CICS displays the relevant Browse Entry panel.

Related topics

[Browse Entry panels on page 91](#)

Sorting a CICS selection list

To sort a CICS selection list, use the SORT primary command. You can sort a CICS selection list by any two fields displayed on the selection list, except the line command field and Status columns. The field names are the column heading values with the following exceptions:

- Use "Dsn" for the **Data set name** field on the File selection list.
- Use "Resource" for the **Resource name** field on the Enqueue selection list.

The sort sequence is ascending for columns with character values, and descending for columns with numeric values. The SORT primary command is also invoked for a single column by placing the cursor on the column heading and pressing Enter.

Example 1. File Selection list

The following example shows how the file list is sorted by dsn and then by type within dsn:

```
COMMAND ==> sort dsn type
  File   Data set name      Type Sys
ACCTFIL  HFM.CICS.ACCTFILE  VSAM
ACCTNAM  HFM.CICS.ACCTNAME  KSDS
ACINUSE  HFM.CICS.ACTINUSE  PATH
```

Example 2. Temporary Storage Selection List

The following example shows how the temporary storage can be sorted by size (descending) and queue name within size (ascending):

```
COMMAND ==> sort size queue
Queue Loc  Items      Size  Max
FMT3  AUX   20         2560  128
FMT5  AUX   10         1280  128
FMT1  AUX   10         1280  128
FMT2  AUX   10         1280  128
FMT4  AUX   10         1280  128
```

Example 3. Transient Data Selection List

The following example shows how the transient data queue list can be sorted by type, and then disposition within type:

```
COMMAND ==> sort Typ dsp
Queue Typ DDname  Dsp
```

CXRF	EXT	DFHCXRF	MOD
FM01	EXT	FM01	SHR
FM02	EXT	FM02	SHR
FM03	EXT	FM03	SHR
FM04	EXT	FM04	SHR

Example 4. Enqueue Selection List

The following example shows how the enqueue selection list can be sorted by task (descending), and then resource name within task (ascending):

```
COMMAND ==> sort task resource
Resource name (first 36 characters)    Task
ENQUEUEE2                            0001177
ENQUEUEE4                            0001177
ENQUEUEE1                            0001176
ENQUEUEE3                            0001176
ENQUEUEE5                            0001176
```

Related topics

[SORT primary command on page 89](#)

Chapter 8. Working with CICS enqueues

This section describes the enqueue list and task purge function of ZDT/CICS.

Invocation and execution

During an Edit session, if ZDT/CICS receives a busy condition when attempting to issue the ZDT/CICS-generated or user-specified CICS enqueue, the message shown in [Figure 12: Sample edit panel with "busy condition" message on page 53](#) is displayed.

Figure 12. Sample edit panel with "busy condition" message

Process	Options	Help
ZDT/CICS	Edit Temporary Storage Entry Pa	CICS resource locked More: +
Input Temporary Storage Queue:		
Queue name		
Sysid		
Pool name		
Start position	Record number	
Record limit	Record sampling	
Inplace edit	Prevent inserts and deletes	
Lock resource	Name	
Copybook or Template:		
Data set name		
Member	Blank or pattern for member list	
Processing Options:		
Copyboo		
3 1. A	CICS enqueue resource 'RESOURCE' is already active. The active enqueue was issued by transaction 'HFM' and userid 'CICSUSER'.	
2. P		
3. N		
4. C		
Command ==>		
F1=Help	F3=Exit	F4=Expand
F11=Right	F12=Cancel	F7=Backward F8=Forward F10=Left

To display the long message, press the Help function key (F1).

The message provides the userid and transaction associated with the active CICS enqueue, along with the enqueue resource name that is preventing the ZDT/CICS session from issuing an enqueue with the same name.

To find more information about the CICS enqueue:

1. Select the **List** option (3.4) from the Utility Functions panel to display the List CICS Resources Entry panel.
2. On the List CICS Resources Entry panel:
 - a. Specify the name of the CICS enqueue resource that you want more information about in the **Resource name** input field.
 - b. Select option 4, Enqueue, from the Processing Options list.
 - c. Press Enter.

ZDT/CICS displays a list of all active CICS enqueues that match the specified resource name on the CICS Enqueue Selection List panel.

Related topics

[Utility Functions panel on page 143](#)

[List CICS Resources Entry panel on page 131](#)

[CICS Enqueue Selection List panel on page 100](#)

Displaying additional CICS attributes

To display additional CICS attributes related to a CICS enqueue, enter the A or S prefix command against the enqueue on the CICS Enqueue Selection List panel to display the CICS Enqueue Resource panel.

Related topics

[CICS Enqueue Selection List panel on page 100](#)

[CICS Enqueue Resource panel on page 98](#)

Purging CICS tasks

To purge a task that issued the CICS enqueue that is locking a resource:

1. Enter the P or F prefix command against the listed enqueue on the CICS Enqueue Selection List panel.

ZDT/CICS issues a SET TASK PURGE or SET TASK FORCEPURGE CICS command respectively against the task.



Note:

1. You cannot issue a P line command (SET TASK PURGE) for tasks defined as not purgeable (**Prge** on the CICS Enqueue Selection List panel shows as NO).
2. You can issue an F line command (SET TASK FORCEPURGE) against a task defined as not purgeable. Before issuing the first PURGE or FORCEPURGE, ZDT/CICS displays a warning panel asking you to confirm the purge.

If the purge was successfully issued against one or more tasks, ZDT/CICS changes the entry on the CICS Enqueue Selection List panel to `*** PURGE ISSUED ***`. This does not indicate that the task was successfully purged, but only that the purge command was successfully issued.

If the purge command failed, ZDT/CICS changes the entry on the CICS Enqueue Selection List to `*** PURGE ERROR ***` and displays the condition and RESP2 values returned by CICS at the bottom of the panel.

3. Issuing PURGE or FORCEPURGE against a task terminates the task. Therefore, you should issue a REFRESH command after purging one or more tasks to produce a current list of all active CICS enqueues.

Related topics

[CICS Enqueue Selection List panel on page 100](#)

Chapter 9. Messages

There are four categories of ZDT/CICS messages. These messages are generated by ZDT/CICS, to confirm successful processing, or to tell you about errors.



Note: To see the message number under Z Common Components, issue the MSGID command.

ZDT/CICS level verification messages

These messages are displayed when you first enter ZDT/CICS, and displays information about the CICS level. ZDT/CICS level verification messages are preceded by "HFMBB" and a message number.

ZDT/CICS logon messages

Messages that are issued on the ZDT/CICS logon screen.

ZDT/CICS message log messages

Messages that are written to the ZDT/CICS message log.

The default ZDT/CICS message log is defined as transient data queue HFMM to sysout class A. However, this may have been changed in the options module during installation.

ZDT/CICS interface messages

These messages are displayed when an error is encountered during a ZDT/CICS session. You can get more information about these messages by pressing the F1 (help) key.

If ZDT/CICS encounters an error after issuing a CICS command (such as INQUIRE FILE), message 1172 is produced, listing the function and returned condition and resp2 values. For further information, look up the condition and resp2 values in either the CICS Application Programming Reference or CICS System Programming Reference.

If ZDT/CICS receives an ILLOGIC condition when performing resource i/o, message 0063 is displayed, giving the VSAM return and error code. Look up the listed VSAM return and error code for the VSAM function in the *DFSMS Macro Instructions for Data Sets* for further information.



Note: Messages HFM1172I and HFM0063I are also documented in the Z Data Tools User's Guide and Reference.

ZDT/CICS logon and message log messages are preceded by "HFMCA" and a message number.

Format of numbered messages

Z Data Tools messages

The format of numbered ZDT/CICS level verification messages is:

Z Data Tools message syntax

HFMBB nnn *message text*

HFMBB

Indicates that the message comes from Z Data Tools.

nnn

Is the message number.

ZDT/CICS messages

The format of numbered ZDT/CICS messages is:

ZDT/CICS message syntax

HFMCAN nnn *message text*

HFMCA

Indicates that the message comes from ZDT/CICS.

nnn

Is the message number.

Z Data Tools messages

The following messages may be issued when the batch job is first invoked from CICS and validates that the CICS region that submitted the job is running with the same level of Z Data Tools.

HFMBB252

No
storage
to
obtain
CICS
buffer
to
query
CICS
levels

Explanation: There is insufficient memory to perform the level check.

User response: Increase the available region size to the submitted batch job.

HFMBB253

CICS
level
inquiry
failed
to
run
successfully
rc
=
rc

Explanation: Internal error occurred processing the inquire level command.

User response: Contact HCL Support.

HFMBB254

You
are
running
a
higher
level
of
Z
Data
Tools
in
the
batch
job
than
in
at
least
one
of
the
connected
CICS
regions.
This
could
lead
to
failures
due
to
services
being
unavailable.
Use
the
command
VERCICS
to
verify
the
current
levels
of
Z
Data

Explanation: This message indicates a mismatch in buffer layout between the batch job and ZDT/CICS most likely due to maintenance not being applied to all instances of ZDT/CICS. This mismatch can lead to severe errors if not resolved.

User response: Use the VERCICS command to display the level of ZDT/CICS on all connected CICS regions. Correct all instances that are running at a lower level from the running Z Data Tools batch job. A difference in level may be due to maintenance not being applied to the ZDT/CICS instance or the ZDT/CICS programs may not have been refreshed in the CICS region after maintenance was applied.

HFMBB255

CICS
level
inquiry
failed
with
cond=CICS
condition
code

Explanation: The load for program HFM3LVL has failed in the connected CICS region with the CICS condition code *condition code*.

User response: This normally indicates an installation problem as HFM3LVL is not accessible in the connected CICS region. Check the DFHRPL and ensure HFM3LVL is available in Z Data Tools libraries.

HFMBB256

Warning
-
PTF
mismatch

Explanation: You are running different maintenance levels of Z Data Tools in the batch job and ZDT/CICS in one or more of the connected CICS regions. This indicates that ZDT/CICS in one or more region may be downlevel and therefore not contain all available services or resolutions for problems provided by more recent levels of maintenance.

User response: Use the VERCICS command to display the PTF level of ZDT/CICS on all the connected CICS regions. Correct all instances that are running at a different PTF level from the running Z Data Tools batch job. A difference in PTF level may be due to maintenance not being applied to the ZDT/CICS instance or the ZDT/CICS programs may not have been refreshed in the CICS region after maintenance was applied.

HFMBB257

CICS
level
inquiry
was
unable
to
load
HFM3LVL

Explanation: The batch job was unable to load the module HFM3LVL.

User response: Ensure HFM3LVL is available to be loaded by the batch job.

ZDT/CICS logon and message log messages

The following messages are issued on the ZDT/CICS logon screen or in the message log.

HFMDA000

Z
Data
Tools
ended

Explanation: Z Data Tools for CICS has ended.

User response: If Z Data Tools for CICS has ended unexpectedly, refer to output in the job that was submitted to start the Z Data Tools batch address space for further information.

HFMDA001

Password
required

Explanation: A password was not entered for the specified userid.

User response: Enter the current password for the specified userid in the Password field.

HFMCA002

Confirm
new
password

Explanation: The new password entered for the specified userid requires confirmation.

User response: Re-enter the new password for the specified userid in the New Password field.

HFMCA003

Re-
enter
new
password

Explanation: An error occurred while processing the new password.

User response: Re-enter the new password for the specified userid in the New Password field.

HFMCA004

Invalid
password

Explanation: An invalid or unauthorized password has been entered for the specified userid.

User response: Enter the current password for the specified userid in the Password field.

HFMCA005

Password
has
expired

Explanation: The current password for the specified userid has expired.

User response: Enter a new password for the specified userid in the New Password field.

HFMC006

Invalid
new
password

Explanation: The new password entered for the specified userid does not meet your system's password requirements.

User response: Enter an acceptable new password for the specified userid in the New Password field.

HFMC007

Userid
is
revoked

Explanation: The specified userid is revoked.

User response: Contact your security administrator to determine why the specified userid is revoked.

HFMC008

Procedure
name
required

Explanation: The Procedure input field has been left blank.

User response: Specify a valid 1–8 character Z Data Tools procedure name in the Procedure input field. Refer to *Z Data Tools Customization Guide* for further information.

HFMC009

Profile
data
set
name
required

Explanation: The Profile data set input field has been left blank.

User response: Specify a valid 1–44 character profile data set name in the Profile data set input field. Refer to *Z Data Tools Customization Guide* for further information.

HFMCA010

Invalid
profile
data
set
name

Explanation: The data set name entered in the Profile data set input field does not follow standard MVS data set naming conventions.

User response: Specify a valid 1–44 character profile data set name in the Profile data set input field. Refer to *Z Data Tools Customization Guide* for further information.

HFMCA011

Jobcard
required

Explanation: The first line of the Jobcard input field has been left blank. It must contain a valid jobname along with the JOB JCL statement.

User response: Specify a valid jobcard in the Jobcard input field. Refer to *Z Data Tools Customization Guide* for further information.

HFMCA012

Jobname
requires //

Explanation: A non-comment line in the jobcard specified in the Jobcard input field does not begin with "//".

User response: Follow JCL conventions by specifying // at the beginning of each non-comment line in the Jobcard input field.

HFMCA013

Invalid
jobname

Explanation: The jobname specified in the Jobcard input field does not follow JCL conventions.

User response: Specify a valid jobname on the first line of the Jobcard input field.

HFMCA014

Jobname
too
long

Explanation: The jobname specified in the Jobcard input field exceeds 8 characters.

User response: Specify a valid jobname on the first line of the Jobcard input field.

HFMCA015

Invalid
jobcard,
JOB
statement
required

Explanation: The first line specified in the Jobcard input field does not contain the required JOB JCL statement.

User response: Specify a valid jobcard in the Jobcard input field. Refer to *Z Data Tools Customization Guide* for further information.

HFMCA016

Job
jobname
not
responding

Explanation: Job *jobname* has been submitted to start the Z Data Tools address space, but a response has not been received within the allocated amount of time. The job may be queued or may have failed. This message is accompanied by message HFMCA019.

User response: Refer to the output of job *jobname* for any further error messages that may indicate why the job has not responded. If the job log cannot be found (the ZDT/CICS job was never started), verify that the HFMRDR DD statement has been properly defined in the CICS startup JCL and your system has sufficient initiators. Refer to the *Z Data Tools Customization Guide* for further information.

Here are some of the most common reasons the batch job may have failed or been queued:

- Insufficient authority to access one of the libraries in the ZDT/CICS procedure. Check the system log for security messages.
 - TCP/IP is not active on the CICS region. Check for TCP/IP error messages in the job log and verify that TCP/IP is active on the CICS region.
 - Duplicate job name. Verify if another user may have specified the same job name in the ZDT/CICS jobcard input field, or a previous ZDT/CICS job is still active.
-

HFMCA017

Job
jobname
submitted

Explanation: Job *jobname* has been submitted to start the Z Data Tools address space.

User response: None.

HFMCA018

Profile
READ
error,
COND:
cond,
RESP2:
resp2

Explanation: Z Data Tools has encountered an error while attempting to read from the profile data set. CICS has returned a condition of *cond* and a resp2 value of *resp2*. This profile data set is used to populate the ZDT/CICS logon screen. ZDT/CICS default values have been used instead.

User response: Look up the condition and resp2 values in CICS Application Programming Reference for the READ FILE API for further information.

HFMC019

Press
F5
to
wait
another
20
seconds,
ENTER
to
resubmit

Explanation: Z Data Tools has submitted a batch job to start the Z Data Tools address space but has not received a response. The job may be queued, or may have failed. This message is accompanied by message HFMC016.

User response: Press F5 to wait another 20 seconds for a response from the batch job or ENTER to resubmit the batch job. Refer to the output in the job displayed in message HFMC016 for any further error messages that may indicate why the job has not responded.

HFMC020

Sockets
error

Explanation: Z Data Tools has encountered an error with the TCP/IP sockets interface. This message is accompanied by message HFMC021.

User response: Look up the error code for the function displayed in message HFMC021 in IP CICS Sockets Guide for further information.

HFMC021

FUNCTION:
function,
ERROR
CODE:
error_code,
RETURN
CODE:
return_code

Explanation: Z Data Tools has encountered an error with the TCP/IP sockets interface when issuing a call to the listed function. This message is accompanied by message HFMCA020.

User response: Look up the error code for the listed sockets function in IP CICS Sockets Guide for further information.

HFMCA022

Internal
reader
error,
RESOURCE:
resource,
FUNCTION:
function

Explanation: Z Data Tools has encountered an error while processing the internal reader. Z Data Tools uses the internal reader to submit a batch job that invokes the Z Data Tools address space. The *function* is the operation Z Data Tools attempted to perform against the internal reader. The *resource* is the name of the transient data queue defined to the internal reader used by the OPEN, WRITE, and CLOSE functions. For ENQ and DEQ functions, *resource* is the enqueue resource name used by Z Data Tools. This message is accompanied by message HFMCA023 that contains the returned condition and resp2 values.

User response: Look up the condition and error code displayed in message HFMCA023 for the listed function in CICS Application Programming Reference for further information.

HFMCA023

COND:
condition,
RESP2:
resp2

Explanation: Z Data Tools has encountered an error while processing the internal reader. The *condition* and *resp2* values returned by CICS are displayed. This message is accompanied by message HFMCA022 that contains the resource name and function that encountered the error.

User response: Look up the condition and error code for the function listed in message HFMCA022 in CICS Application Programming Reference for further information.

HFMCA024

Internal
reader
incorrectly
defined,
RESOURCE:
resource

Explanation: The transient data queue resource is incorrectly defined to the internal reader. Z Data Tools uses the internal reader to submit a batch job that invokes the Z Data Tools address space.

User response: Correctly define a transient data queue to the internal reader. Refer to *Z Data Tools Customization Guide* for further information.

HFMCA025

Password
successfully
changed

Explanation: The password has been successfully changed for the specified userid.

User response: None.

HFMCA026

Unknown
return
code
in
ESMRESP
from
external
security
manager

Explanation: A CICS request to verify the entered password for the specified userid has returned an unknown return code in ESMRESP from the external security manager.

User response: Contact your security administrator.

HFMA027

The
CICS
external
security
manager
interface
is
not
initialized

Explanation: A CICS request to verify the entered password for the specified userid has returned an error condition indicating that the CICS external security manager interface is not initialized.

User response: Contact your security administrator.

HFMA028

The
external
security
manager
is
not
responding

Explanation: A CICS request to verify the entered password for the specified userid has returned an error condition indicating that the CICS external security manager interface is not responding.

User response: Contact your security administrator.

HFMC029

The
USERID
field
contains
a
blank
character
in
an
invalid
position

Explanation: A CICS request to verify the entered password for the specified userid has returned an error condition indicating that the userid field contains a blank character in an invalid position.

User response: Specify a valid userid or contact your security administrator.

HFMC030

Unknown
INVREQ
value
when
validating
password

Explanation: A CICS request to verify the entered password for the specified userid has returned an unknown INVREQ resp2 value.

User response: Contact HCL Support.

HFMCA031

The
USERID
is
not
known
to
the
external
security
manager

Explanation: A CICS request to verify the entered password for the specified userid has returned an error condition indicating that the specified userid is not known to the external security manager.

User response: Specify a valid userid or contact your security administrator.

HFMCA032

Unknown
condition
received
from
password
validation

Explanation: A CICS request to verify the entered password for the specified userid has returned an unknown condition.

User response: Contact HCL Support.

HFMCA033

Abend
during
job
submission

Explanation: An abend was encountered when Z Data Tools attempted to submit a batch job to the internal reader to start the Z Data Tools address space.

User response: Refer to the CICS and system log for further information about the cause of the abend.

HFMC034

The
change
password
request
failed
during
SECLABEL
processing

Explanation: A CICS request to change the password for the specified userid has returned an error condition indicating that the change password request failed during SECLABEL processing.

User response: Contact your security administrator.

HFMC035

The
user
is
revoked
in
the
the
connection
to
the
default
group

Explanation: A CICS request to change the password for the specified userid has returned an error condition indicating that the user is revoked in the connection to the default group.

User response: Contact your security administrator.

HFMCA036

NOTAUTH
condition
received
from
change
password
request

Explanation: A CICS request to change the password for the specified userid has returned an error condition indicating that the user is not authorized.

User response: Contact your security administrator.

HFMCA037

Z
Data
Tools
for
CICS
has
ended

Explanation: Z Data Tools for CICS has ended.

User response: None.

HFMCA038

Invalid
userid,
re-
enter

Explanation: You have entered an invalid userid. The userid either contains incorrect characters or is not recognized by the external security manager.

User response: Enter a valid userid.

HFMC039

Userid
not
authorized
to
issue
INQUIRE
command

Explanation: CICS command security has prevented your userid from issuing INQUIRE commands on the CICS region. Your userid must have the authority to issue INQUIRE commands to run ZDT/CICS.

User response: Contact your security administrator.

HFMC040

Connection
tdqueue
error,
RESOURCE:
resource,
FUNCTION:
function

Explanation: Z Data Tools has encountered an error while processing the connection transient data queue. Z Data Tools reads this queue (if specified) to obtain a list of APPLIDs of connected CICS regions where ZDT/CICS has been installed to process remote resources. The *function* is the operation Z Data Tools attempted to perform against the queue. The *resource* is the name of the transient data queue defined to ZDT/CICS on the CONN option in HFM3POPT.

User response: Look up the condition and error code displayed in message HFMC023 for the listed function in *CICS Application Programming Reference* for further information.

HFMC041

Connection
tdqueue
incorrectly
defined,
RESOURCE:
resource

Explanation: The connection transient data queue is incorrectly defined. Z Data Tools reads this queue (if specified) to obtain a list of APPLIDs of connected CICS regions where ZDT/CICS has been installed to process remote resources. The *resource* is the name of the transient data queue defined to ZDT/CICS on the CONN option in HFM3POPT. This resource must be defined as an extrapartition, input tdqueue with a record length no larger than 80 bytes.

User response: Correctly define the connection transient data queue. Refer to *Z Data Tools Customization Guide* for further information.

HFMCA042

Trace
requested,
message
log
error,
RESOURCE:
resource,
FUNCTION
function

Explanation: You have requested ZDT/CICS tracing, but an error was encountered with the transient data queue defined as the ZDT/CICS message log. ZDT/CICS tracing writes data to the message log, and therefore ZDT/CICS cannot perform tracing until the error with this resource has been resolved. The *function* is the operation Z Data Tools attempted to perform against the queue. The *resource* is the name of the transient data queue defined to ZDT/CICS as the message log on the MSGLOG option in HFM3POPT. Refer to the *Z Data Tools Customization Guide* for further details about the ZDT/CICS message log.

User response: Look up the condition and error code displayed in message HFMCA0023 for the listed function in *CICS Application Programming Reference* for further information.

HFMCA043

CICS
socket
interface
abend,
interface
may
not
be
started

Explanation: ZDT/CICS encountered an abend when attempting to invoke the CICS socket interface. The CICS socket interface is required to communicate with the HFM batch address space. The abend may be due to the CICS socket interface not being started on the CICS region.

User response: Issue the EZAO CICS transaction (if available) to view the status and start the CICS socket interface, then rerun the ZDT/CICS transaction.

HFMCA065

hh:mm:ss.ms

trace

message

Explanation: Various tracing information as requested during ZDT/CICS initialization.

User response: None.

HFMCA999

Z

Data

Tools/CICS

problem

-

message

nnnn

not

found

in

table

Explanation: Z Data Tools for CICS cannot find the message number *nnnn* in the message table. This is probably a Z Data Tools error.

User response: Contact HCL Support.

HFMCA060

mm/
dd/yy
hh:mm:ss
Z
Data
Tools
for
CICS
started
by
USER:
userid,
FACILITY:
facility

Explanation: A ZDT/CICS session has been started on the CICS region at the specified date and time. The ZDT/CICS transaction was initiated by the listed *userid* and *facility*. This facility will also be written in all subsequent messages written to the message log during this ZDT/CICS session.

User response: None.

HFMCA061

mm/
dd/yy
hh:mm:ss
Z
Data
Tools
for
CICS
ended,
USER:
userid,
FACILITY:
facility,
RC:
rc

Explanation: A ZDT/CICS session has ended on the CICS region at the specified date and time with return code *rc*. The ZDT/CICS transaction was originally initiated by the listed *userid* and *facility*.

User response: If the return code is not 0, refer to previous messages for an explanation of the errors encountered.

HFMCA062

mm/
dd/yy
hh:mm:ss
 Failure
 loading
 options
 module,
 COND:
condition,
 RESP2:
resp2,
 FACILITY:
facility

Explanation: ZDT/CICS was unable to load the options module HFM3POPT. When attempting to load the program, CICS returned the listed *condition* and *resp2* values.

User response: If your installation accepted the ZDT/CICS default values and therefore did not define and install the options module, ignore this message. Otherwise, look up the *condition* and *resp2* values in the CICS Application Programming Reference for the LOAD PROGRAM API for further information. Refer to the *Z Data Tools Customization Guide* for further information about the options module HFM3POPT.

HFMCA063

mm/
dd/yy
hh:mm:ss
Failure
loading
message
module,
COND:
condition,
RESP2:
resp2,
FACILITY:
facility

Explanation: A language other than ENGLISH was specified in the ZDT/CICS options module. However, ZDT/CICS was unable to load the message module for the specified language.

User response: Look up the *condition* and *resp2* values in the CICS Application Programming Reference for the LOAD PROGRAM API for further information. Refer to the *Z Data Tools Customization Guide* for further information about multicultural support.

HFMCA064

mm/
dd/yy
hh:mm:ss
Failure
starting
verify
transaction,
COND:
condition,
RESP2:
resp2,
FACILITY:
facility

Explanation: ZDT/CICS attempted to start a transaction to verify that the entered userid is valid. The transaction failed with the listed *condition* and *resp2* values. The default ZDT/CICS verification transaction is HFMV, but this may have been changed in the options module during installation.

User response: Look up the *condition* and *resp2* values in the CICS Application Programming Reference for the START API for further information. Refer to the *Z Data Tools Customization Guide* for further information about the userid verification transaction (HFMV).

Part II. ZDT/CICS reference

Chapter 10. ZDT/CICS primary commands

This chapter describes the syntax and parameters for the primary commands that you can use in various ZDT/CICS panels.

You enter primary commands on the command line of a panel.

Where the syntax allows you to specify more than one operand, you can use either a blank or a comma as a separator between each operand.

For example, both of the following commands are correct:

```
SORT DSN TYPE  
SORT DSN,TYPE
```

The primary commands are listed in two categories:

General primary commands

Commands you can issue from anywhere there is a command line. See [General primary commands on page 83](#).

Selection list primary commands

Commands that apply to the CICS resource selection lists displayed with option 3.4, or when you specify a generic CICS resource name on a function entry panel. See [Selection list primary commands on page 86](#).

General primary commands

CUAATTR primary command

The CUAATTR primary command displays the Change CUA Attributes panel which allows you to change color, intensity, and highlighting attributes for panel elements.

Syntax

►► CUAATTR ◀◀

Availability

Available on all panels

Related tasks

- [Changing panel colors, intensity, and highlighting on page 35](#)

DX primary command

The DX command converts a decimal value to its equivalent hexadecimal value.

Syntax

➤ DX — *decimal_value* ➤

Availability

This command can be entered on any ZDT/CICS panel.

Related tasks

[Using hexadecimal values in ZDT/CICS on page 29](#)

KEYS primary command

The KEYS primary command displays the HFM Keylist Change panel which allows you to display and modify the keys for the current function.

Syntax

➤ KEYS ➤

Availability

Available on all panels

Related tasks

- [Changing the current key list values on page 35](#)

PFSHOW primary command

The PFSHOW primary command allows the toggling on or off of descriptions of PF Keys.

Syntax

➤ PFSHOW — ¹ON/OFF —
 OFF —
 ON —

Notes:

¹ If no parameter is specified: if the current setting is ON, acts as if OFF as been specified; if the current setting is OFF, acts as if ON has been specified.

ON

Shows PF key descriptions.

OFF

Hides PF key descriptions.

Availability

Available on all panels

Related tasks

- [Hiding or showing PF key descriptions on page 34](#)

SETTINGS primary command

The SETTINGS primary command displays the ZCC Settings panel, which allows you to change various options and terminal characteristics that affect the way information is displayed on your screen.



Note: For Z Data Tools panels, the option for ISPF SETTINGS drives this command when run from CICS.

Syntax

➤ SETTINGS ➤

Availability

Available on all panels

Related tasks

- [Changing terminal characteristics on page 34](#)

VER primary command

The VER command displays the ZDT/CICS release and PTF level, and indicates whether or not ZDT/CICS is APF-authorized.

If the VER command already exists in the ISPF command table at your site, you can use the LVL synonym to perform the same task.

Syntax

➤ VER ➤
LVL

Availability

Available on all panels

Related tasks

- [Checking your ZDT/CICS version on page 18](#)

VERCICS primary command

The VERCICS command displays the level of connected CICS systems.

Syntax

➤ VERCICS ➤

Availability

Available on all panels

Related tasks

- [Checking the level of connected CICS systems on page 18](#)

XD primary command

The XD command converts a hexadecimal value to its equivalent decimal value.

Syntax

➤ XD — *hexadecimal_value* ➤

Availability

Available on all panels.

Results

Related tasks

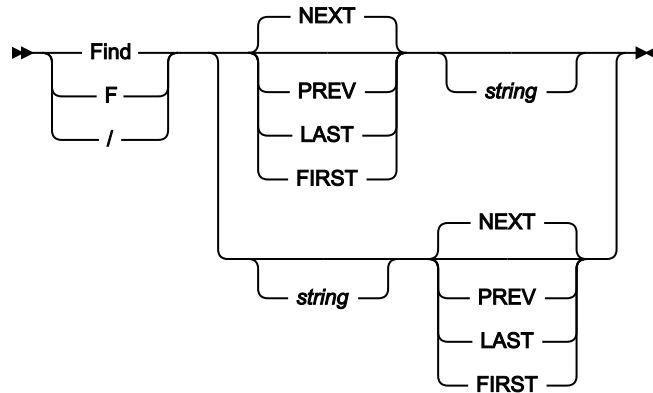
[Using hexadecimal values in ZDT/CICS on page 29](#)

Selection list primary commands

FIND primary command

The FIND primary command normally finds the next occurrence of a character string in a selection list.

Syntax



string

The search string can be:

- A character string not starting or ending with a single quotation mark and not containing any embedded blanks or commas. The case of the string is ignored. Uppercase and lowercase representations of the same character match. For example, "Mixed" matches "MIXED".
- A character string enclosed in single quotation marks. The string can contain blanks and commas. The case of the string is ignored.
- C followed by a character string enclosed in quotation marks (C'Frog'), or a character string enclosed in quotation marks followed by c ('Frog'C). The string can contain blanks and commas. The string must match exactly (including case).
- X followed by a hexadecimal string enclosed in single quotation marks (X'C1C2').

Availability

Available on selection lists.

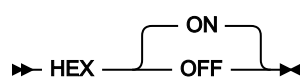
Related tasks

- [Finding a string in a selection list on page 48](#)

HEX primary command

When displaying a Temporary Storage Selection list, use the HEX primary command to display the hexadecimal value of any non-displayable characters in the temporary storage queue name.

Syntax



ON

Display the hexadecimal representation of the data vertically (three lines per byte).

OFF

Display the data in character format.

Availability

- [CICS Temporary Storage Selection List panel on page 105](#)

Related tasks

- [Viewing queue names with unprintable characters on page 49](#)

LOCATE primary command

The LOCATE primary command searches the current primary sort order column for an occurrence of the specified string.

Syntax

➤ LOCATE ➤

Availability

Available on selection lists.

Related tasks

- [Searching the current primary sort order column on page 49](#)

REFRESH primary command

The REFRESH primary command replaces the current selection list with a new selection list taken from the matching CICS resources.

Syntax

➤ REFRESH ➤

Availability

Available on all selection lists.

Related tasks

- [Refreshing the current selection list on page 49](#)

RFIND primary command

The RFIND primary command repeats the search performed by the previous FIND primary command.

Syntax

➤ RFIND ➤

When your cursor is positioned in the body of the data, RFIND finds the next instance of *string* down from the cursor position. When your cursor is outside of the data area, RFIND finds the first instance of *string*. If you press the RFIND function key (F5), you can easily move to the each instance of *string*, as your cursor remains in the data area after the command is issued. However, if you type the RFIND command on the command line, you need to reposition your cursor on the last instance of *string* and then press Enter, in order to find the next instance.

Availability

Available on all selection lists.

Related tasks

- [Finding a string in a selection list on page 48](#)

SELECT primary command

The SELECT primary command selects items from a display list

Syntax

➤ Select — *resource_name_pattern* ➤

Availability

Available on all selection lists.

Related tasks

- [Selecting items from a display list on page 50](#)

SORT primary command

The SORT primary command sorts a CICS selection list by any two fields displayed on the selection list, except the line command field and Status columns.

Syntax

➤ SORT ➤

Availability

Available on all selection lists.

Related tasks

- [Sorting a CICS selection list on page 51](#)

Chapter 11. ZDT/CICS panels and fields

These topics list most of the ZDT/CICS panels. In most cases there is a definition for each field in the panel and, where applicable, the value ranges that are valid for each entry field.

The CICS entry panels for Browse, Edit, View, Print, and List have a field named **Applid** after the command line which displays the VTAM applid of the CICS system. You can specify a generic name to display a list of CICS systems, if an HFMCIICS DD describing CICS applids has been allocated to the ISPF session. See the *Z Data Tools Customization Guide* for details.



Note: The **Applid** field can only be modified when running ZDT/CICS under ISPF.

Browse Entry panels

You use the Browse Entry panels to enter the name of a resource to be browsed. You also use these panels to specify the name of the copybook or template that describes a logical view of the data set.

There are three different Browse Entry panels. The type of Browse Entry panel that ZDT/CICS displays depends on which **CICS Resource** you selected:

Table 3. Browse Entry panels

CICS Resource	Browse Entry panel displayed
File	Browse CICS File Entry panel
Temporary Storage	Browse Temporary Storage Entry panel
Transient Data	Browse Transient Data Entry panel

Each of the Browse Entry panels is shown below, followed by a list of entry fields covering all three panels. Where an entry field is not common to all three panels, the panel to which it applies is indicated.

Panel and field definitions

Figure 13. Browse CICS File Entry panel

<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp
ZDT/CICS Browse CICS File Entry Panel		
Input CICS VSAM File:		
File name	_____	
Sysid	_____	
Start position	_____	
Record limit	_____	Record sampling _
Copybook or Template:		
Data set name	_____	
Member	_____	Blank or pattern for member list
Processing Options:		
Copybook/template	Start position type	Enter "/" to select option
3 1. Above	1. Key	_ Edit template _ Type (1,2,S)
2. Previous	2. RBA	_ Include only selected records
3. None	3. Record number	
4. Create dynamic		
Command ==> _____ Applid _____		
F1=Help	F3=Exit	F4=Expand F7=Backward F8=Forward F10=Left
F11=Right	F12=Cancel	

Figure 14. Browse Temporary Storage Entry panel

<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp
ZDT/CICS Browse Temporary Storage Entry Panel		
Input Temporary Storage Queue:		
Queue name	_____	(Case sensitive)
Sysid	_____	
Pool name	_____	
Start position	_____	Record number
Record limit	_____	Record sampling _
Copybook or Template:		
Data set name	_____	
Member	_____	Blank or pattern for member list
Processing Options:		
Copybook/template	Enter "/" to select option	
3 1. Above	_ Edit template _	Type (1,2,S)
2. Previous	_ Include only selected records	
3. None		
4. Create dynamic		
Command ==> _____ Applid _____		
F1=Help	F3=Exit	F4=Expand F7=Backward F8=Forward F10=Left
F11=Right	F12=Cancel	

Figure 15. Browse Transient Data Entry panel

Process	Options	Help
ZDT/CICS Browse Transient Data Entry Panel		
Input Transient Data Queue:		
Queue name	_____	(Case sensitive)
Sysid	_____	
Start position	_____	Record number
Record limit	_____	Record sampling _
Copybook or Template:		
Data set name	_____	
Member	_____	Blank or pattern for member list
Processing Options:		
Copybook/template	Enter "/" to select option	
3 1. Above	_ Edit template	_ Type (1,2,S)
2. Previous	_	Include only selected records
3. None		
4. Create dynamic		
Command ==> _____ Applid _____		
F1=Help	F3=Exit	F4=Expand F7=Backward F8=Forward F10=Left
F11=Right	F12=Cancel	

File name (CICS resource: File only)

The 1–8 character name of the file you want to browse. It is used in conjunction with **Sysid** to produce a list of matching resources.

You can enter a fully-qualified or generic resource name. In a generic resource, use the percentage sign (%) to represent a single character, and an asterisk (*) to represent any number of characters.

Queue name (CICS resource: Temporary Storage only)

The 1–16 character name of the temporary storage queue you want to browse. It is used in conjunction with **Sysid** and **Pool name** to produce a list of matching resources.

You can enter a fully-qualified or generic resource name. In a generic resource, use the percentage sign (%) to represent a single character, and an asterisk (*) to represent any number of characters.

A CICS temporary storage queue name can contain mixed-case and unprintable characters. Therefore, this input field is case sensitive.

To view or enter the hex value of a TS queue name, place the cursor on the field and enter the EXPAND primary command (or equivalent function key). Enter the HEX ON command from within the expand pop-up panel to view and enter hex values.

Queue name (CICS resource: Transient Data only)

The 1–4 character name of the transient data queue you want to browse. It is used in conjunction with **Sysid** to produce a list of matching resources.

You can enter a fully-qualified or generic resource name. In a generic resource, use the percentage sign (%) to represent a single character, and an asterisk (*) to represent any number of characters.

A CICS transient data queue name can contain mixed-case characters. Therefore, this input field is case sensitive.

Sysid

The ID of the CICS systems where the resource resides. A blank value defaults to the local system.

You can enter a fully qualified or generic sysid. In a generic sysid, use the % sign to represent a single character, and an asterisk (*) to represent any number of characters.

Pool name (CICS resource: Temporary Storage only)

The TS pool name of a shared temporary storage pool and temporary storage processing shipped to the temporary storage server that manages the pool.

You can enter a fully-qualified or generic pool name. In a generic pool name use the percentage sign (%) to represent a single character, and an asterisk (*) to represent any number of characters.

If you specify a **Sysid** value and a TS Pool name, then a list of queues that match either is produced from which you can select the appropriate queue for processing.

Start position

Initial starting position for the data set to be browsed. The initial display is positioned at the specified record.

The default is the top of the data set. You can enter a negative record to indicate the number of records before the end of file. For example, to see just the last record on the file, enter -1 as the start point.

The format of the start position field is either numeric or character, depending upon the type of start position selected. For VSAM KSDS Key values, if the value you enter contains leading, embedded or trailing blanks, commas or quotation marks, it must be enclosed in quotation marks. You may also enter a hexadecimal string enclosed in quotation marks and preceded by X or x, for example, `x'C1C2'`.

This field is scrollable and can be expanded with the EXPAND primary command (or equivalent function key). See [Scrollable input and display fields for long names on page 21](#).

For all other data set formats, a valid unsigned number must be entered.

To specify a starting position as the number of records before the end of file, enter a negative record number. For example, to see just the last record on the file, enter a start position of -1.

If you specify a starting position, you should also specify the **Start position type** in the Processing Options. If you do not, Z Data Tools assumes that the value provided in the Starting position field is a record number.

VSAM - KSDS: Key value

If the key is not matched, the record with a key greater than the value given is specified.

If the key value is greater than the last record in the data set, the "Position not found" condition is returned.

VSAM - ESDS: RBA (Relative Byte Address) Value

If the RBA is not matched, the record with a RBA greater than the value given is specified.

If the RBA value is greater than that of the last record in the data set, the "Position not found" condition is returned.

VSAM - RRDS: Slot value

If the slot number is greater than the last used slot in the data set, the "Position not found" condition is returned.

Queues – temporary storage and transient data

For queues, the start position is the record number. If the specified record number is greater than the number of records in the queue, the "Position not found" condition is returned.

Record limit

This field restricts the number of records retrieved from a data set (from the start point or top) resulting in an edit of a portion of the data set. You can use the keyword *"MEMORY"* as a record limit to restrict the number of records retrieved to as many as will fit comfortably in the available virtual storage.

The default start position is the top of the data set.

Record Sampling

Indicates whether you want record sampling to be performed on the data set. If you select this option, ZDT/CICS displays the Record Sampling panel.

Copybook or Template

Data set name and Member name of the template or copybook to be used to format your data.



Note: In the case of a copybook, this can be the name of a CA-Panvalet library, or a library accessed using the Library Management System Exit.

Copybook/template usage

Indicates if you want to use a template for a logical view of the data.

1

Use the template specified on the panel (or compile the specified copybook into a template, and use that).

2

Use the last template associated with the data set.

3

No logical view is to be used by the function.

4

Create a dynamic template.

Start position type (CICS resource: File only)

Determines how ZDT/CICS interprets the value provided in the Starting position field. If the Start position type is not specified, ZDT/CICS assumes that the value is a Record Number.

1. KEY

Only valid when the data set is a VSAM KSDS, VSAM AIX® or VSAM PATH.

2. RBA

Only valid when the data set is a CICS VSAM ESDS.

3. Record Number

Default. Valid for any type of supported data set.

Edit template

Indicates if you want to edit the template before use. You edit the template when you need to change format, selection, data create attributes, and reformatting information for output copy templates.

Type (1,2,S)

The type of editing you want to perform.

You can specify one of the following values:

1

Edit the Record Identification Criteria by field first

2

Edit the Record Selection Criteria by field first

S

Edit the source definition for a template using the advanced copybook selection facility.

This option is ignored when editing a dynamic template.

Include only selected records

When the ZDT/CICS editor session is either in-storage (a record limit of *"MEMORY"* is used) or when you have selected **Record Sampling**, only the records selected by template processing are included in the Edit or Browse session.

This option does not alter the operation of the ZDT/CICS editor session if a template is not used.

Use I/O exit

Allows you to specify a user I/O exit for compressed or encrypted data sets.

This option has two fields. To select the option, enter "/" in the field to the left of Use I/O exit. With this selected, you can then specify which exit to use in the field to the right of the field label.



Note:

1. The fields only display if Z Data Tools is installed with the option **USEIOX=ENABLE**, and the **Exit enabled** field (in the Set System Processing Options panel) is set to YES. If a default is specified with either of those options, it is displayed in the field to the right of Use I/O exit.
2. I/O exits can only be used to process the data sets that you are using. They cannot be used to process the copybook or template that you are using to format the data set.

Parent panels

- [Primary Option Menu panels on page 133](#) (when you enter DSB on the command line.)
- When you use the B prefix command in a list of CICS resources.

Child panels

The next panel displayed depends on the options selected in the Browse CICS File Entry panel.

Related tasks

- [Viewing and changing CICS resources on page 40](#)

Change CUA Attributes panel

You use the Change CUA Attributes panel to adjust panel colors, intensity, and highlighting.

Panel and field definitions

Figure 16. Change CUA Attributes panel

Change CUA Attributes				
Command ==> -----				
Change color, intensity, and highlighting attributes for panel elements. Press F3 (Exit) to save changes or F12 (Cancel) to exit without saving. Press F2 (Reset) to restore CUA defaults.				
Panel Element	Color	Intensity	Highlight	More: +
AB Selected Choice	YELLOW	LOW	NONE	
AB Separator Line	BLUE	LOW	NONE	
AB Unavailable Choices	BLUE	LOW	NONE	
AB Unselected Choices	WHITE	HIGH	NONE	
Action Message Text	RED	HIGH	NONE	
Background Panel Border	BLUE	HIGH	NONE	
Caution Text	YELLOW	HIGH	NONE	
Choice Entry Field	TURQ	LOW	USCORE	
Column Heading	BLUE	HIGH	NONE	
Descriptive Text	GREEN	LOW	NONE	
Emphasized Text	TURQ	HIGH	NONE	
Error Emphasis	YELLOW	HIGH	REVERSE	
F1=Help F2=Reset F3=Exit F7=Backward F8=Forward F12=Cancel				

Parent panels

- Any ZDT/CICS panel.

Child panels

- None.

Related tasks

- [Changing panel colors, intensity, and highlighting on page 35](#)

CICS Enqueue Resource panel

You use the CICS Enqueue Resource panel to display additional CICS attributes for the selected enqueue. You cannot change any of the fields on this panel.

Panel and field definitions

Figure 17. CICS Enqueue Resource panel

Process	Options	Help
ZDT/CICS	CICS Enqueue Resource	FMLLOCK:TS TEST
General		
ENQ resource name	FMLLOCK:TS	TEST
Resource length	. 255	
Duration	. . . . . 2454	
Enqfails	. . . . . 0	
Enqscope	. . . . .
Network UOW	. . . . . ..AUIBMQXP.TCPS1355^5.!V...	
Program	. . . . . HFM3CICS	
Purgeability	. . . Not purgeable	
Relation	. . . . . OWNER	
State	. . . . . ACTIVE	
Sysid	. . . . .
Task	. . . . . 0000241	
Transaction	. . . HFM	
Type	. . . . . EXECENQ	
UOW	. . . . . BE5FF5425AE5FD02	
Userid	. . . . . SAMPLEID	
Qualifier	. . . . .
Qualifier length	. 0	
Command ==>		
F1=Help	F3=Exit	F4=CRetrieval F7=Backward F8=Forward F10=Actions
F12=Cancel		

ENQ resource name

The 1–255 characters of the resource name associated with the enqueue lock.

Resource length

The length of the enqueue resource name.

Duration

The elapsed time in seconds since the enqueue entered its current state.

Enqfails

For retained enqueues, the number of failed enqueue attempts for this resource after the enqueue was last acquired.

Enqscope

If the enqueue has sysplex scope, the 4-character name which was used to qualify the sysplex-wide enqueue request issued by this CICS region is returned. If it has region scope, blanks are returned.

Network UOW

The 1–27 character network-wide LU6.2 ID of the UOW that issued the enqueue.

Program

The 1–8 character name of the first program invoked by the task executing the transaction specified in the **Transaction** field.

Purgeability

Indicates whether CICS is allowed to purge the task associated with the UOW that issued the enqueue.

Relation

Indicates whether the data being returned is associated with the owner of the enqueue or with a task waiting for the enqueue.

State

The state that the enqueue is held in.

Sysid

The System ID of the CICS system on which the enqueue resides. A blank value indicates the enqueue resides on the local system.

Task

The number of the task associated with the UOW that issued the enqueue.

Transaction

The 1–4 character identifier of the transaction associated with the UOW that issued the enqueue.

Type

The type of resource enqueued upon.

UOW

The 16-character local identifier of the UOW that issued the enqueue.

Userid

The 1–8 character identifier of the user associated with the task specified in the **Task** field.

Qualifier

The optional 0–255 character qualifier that further identifies the resource associated with the enqueue.

Qualifier length

The length of the optional qualifier.

Parent panels

- [CICS Enqueue Selection List panel on page 100](#)

Child panels

- None.

Related tasks

- [Working with CICS enqueues on page 53](#)

CICS Enqueue Selection List panel

The CICS Enqueue Selection List panel shows all the CICS enqueues that match the resource name and sysid values specified on the previous panel. Standard scrolling applies and you can sort any of the columns. You can also perform the following tasks:

- Display attributes related to the CICS enqueue (A or S prefix command)
- Issue PURGE against the task that issued the selected CICS enqueue (P prefix command)
- Issue FORCEPURGE against the task that issued the selected CICS enqueue (F prefix command)

Panel and field definitions

Figure 18. CICS Enqueue Selection List panel

Process	Options	Help				
Z Data Tools		CICS Enqueue Selection List			Row 00001 of 00001	
Resource name (first 36 characters)		Task	Tran	Program	User	Purg +
* FMLOCK:TS TS02		165	* ZDT	* HFM3CICS	* CICSUSER	* NO
**** End of data ****						
Command ==>						
F1=Help	F3=Exit	F4=CRetrie	F5=RFind	F7=Backward	F8=Forward	Scroll PAGE
F10=Left	F11=Right	F12=Cancel				

Prefix area (first column)

You can use the prefix area to enter the following commands:

A

Displays the CICS Enqueue Resource panel from which you can display and alter the CICS information associated with a given CICS resource, CICS files, or CICS enqueues. Transient data intrapartition and extrapartition only.

F

Issue FORCEPURGE against the task that issued the selected CICS enqueue. CICS enqueues only.

P

The print function is invoked for the CICS file or queue. Option 3.4 only.

For CICS enqueues, PURGE is issued against the task that issued the selected CICS enqueue.

S

For enqueues, the A (Attributes) prefix command is substituted. For any other function selection list, this selects the resource for the calling function.

Resource Name

The first 36 characters of the resource name associated with the enqueue lock. The full resource name can contain 255 characters and can be viewed by entering the A prefix command.

Task

The number of the task associated with the UOW that issued the enqueue.

Tran

The 1–4 character identifier of the transaction associated with the UOW that issued the enqueue.

Program

The 1–8 character name of the first program invoked by the task executing the transaction specified in the **Tran** field.

User

The 1–8 character identifier of the user associated with the task specified in the **Task** field.

Purge

Indicates whether CICS is allowed to purge the task associated with the UOW that issued the enqueue (Purgeability).

SYS

The System ID of the CICS system on which the enqueue resides. A blank value indicates the enqueue resides on the local system.

Parent panels

- [List CICS Resources Entry panel on page 131](#)
- Any ZDT/CICS entry panel where you use a wildcard when specifying a CICS resource name.

Child panels

- [CICS Enqueue Resource panel on page 98](#)

Related tasks

- [Working with CICS enqueues on page 53](#)

CICS File Selection List panel

The ZDT/CICS File Selection List panel shows all the files that match the file name and sysid values specified on the previous panel. Standard scrolling applies and you can sort any of the columns with exception of the Status columns. You can also perform the following tasks:

- Open and close files, and modify various file attributes.
- Display catalog information associated with a data set name.
- Invoke various Z Data Tools functions against a file.

Panel and field definitions

Figure 19. CICS File Selection List panel

```

  Process      Options      Help
-----
Z Data Tools      CICS File Selection List      Row 00001 of 00002
File      Data Set Name      Type  O E R U A B D SY +
M0*      *      *      P N E P D R E *
      E A A D D O L

- MODEL      HFM.REGTEST.CICS.MODELS.KSDS      KSDS  O E R _ _ B _
- MODELS      HFM.REGTEST.RFM0029.MODELS.KSDS      KSDS  O E R _ _ B _
**** End of data ****

Command ==> _____ Scroll PAGE
F1=Help      F3=Exit      F4=CRetrieve F5=RFind      F7=Backward F8=Forward
F10=Left      F11=Right      F12=Cancel

```

Prefix area (first column)

You can use the prefix area to enter the following commands:

A

ZDT/CICS displays the File Information panel from which you can display and alter the CICS information associated with a given CICS resource, CICS files, or CICS enqueues. Transient data intrapartition and extrapartition only.

B

Perform a BROWSE command against the CICS file. Option 3.4 only.

E

Perform an EDIT command against the CICS file. Option 3.4 only.

!

Perform an INFO command against the CICS resource if a z/OS® data set is associated with it. This command displays the data set details and, for VSAM entries, also displays statistics and allocation information.

S

For option 3.4, the edit prefix command (E) is substituted for files and queues. For enqueues, the A (Attributes) prefix command is substituted. For any other function selection list, this selects the resource for the calling function.

P

The print function is invoked for the CICS file or queue. Option 3.4 only.

For CICS enqueues, PURGE is issued against the task that issued the selected CICS enqueue.

V

Perform a VIEW command against the CICS resource. Option 3.4 only.

X

Perform an EXTENTS command against the CICS resource if a z/OS® data set is associated with it. This command displays the statistics and extent information for a data set.

File

The 1–8 character CICS file name.

Data set name

The name of the associated z/OS® data set (if available).

Type

The type of the associated z/OS® data set. The value is VSAM or BDAM for closed files. If a VSAM file is open, **Type** contains KSDS, ESDS, AIX, PATH, RRDS, VRDS values describing the type of VSAM file. For CICS data tables, **Type** contains TABL.

Status

Shows the CICS file attributes and the current status of the file. The status can be changed by overtyping and pressing Enter.

Ope

You can change the open status by overtyping the character with an "O" to open, or "C" to close.

Ena

You can change the enable status by overtyping the displayed character with an "E" to enable, or "D" to disable. A "U" status is only displayed when a file has had a close issued against it.

Rea

This field has either the value "R" or blanks. To change the status, type "R" in the displayed character to set the status, or blank to disallow read to the file.



Note: The read status can only be cleared when browse (**Bro**), update (**Upd**) and delete (**Del**) are also cleared.

Upd

This field has either the value "U" or blanks. To change the status, type "U" in the displayed character to set the status, or blank to disallow updates to the file.

Add

This field has either the value "A" or blanks. To change the status, type "A" in the displayed character to set the status, or blank disallow ADDs to the file.

Bro

This field has either the value "B" or blanks. To change the status, type "B" in the displayed character to set the status or blank to disallow BROWSE to the file.

Del

This field has either the value "D" or blanks. To change the status, type "D" in the displayed character to set the status or blank to disallow DELETes to the file.

Sys

The System ID of the CICS system on which the file has been defined.

Parent panels

- [List CICS Resources Entry panel on page 131](#)
- Any ZDT/CICS entry panel where you use a wildcard when specifying a CICS resource name.

Child panels

- [File Information panel on page 118](#)

Related tasks**CICS Temporary Storage Selection List panel**

You use the CICS Temporary Storage Selection List panel to list all matching temporary storage queues.

Panel and field definitions

Figure 20. CICS Temporary Storage Selection List panel

Process	Options	Help							
Z Data Tools		CICS Temporary Storage Selection List							Row 00001 of 00002
Queue	Loc	Items	Size	Max	Min	Tran	Last	SYS	Pool
* TS01	* AUX	1	128	128	128	* HFM	666	*	*
TS02	AUX	1	128	128	128	HFM	567		
**** End of data ****									
Command ==> _____ Scroll PAGE									
F1=Help		F3=Exit		F4=CRetrieval		F5=RFind		F7=Backward	
F10=Left		F11=Right		F12=Cancel		F8=Forward			

Prefix area(first column)

You can use the prefix area to enter the following commands:

B

Perform a BROWSE command against the CICS queue.

D

Delete a temporary storage queue, or delete all the items for a transient data intrapartition queue.

E

Perform an EDIT command against the CICS queue.

P

Print a temporary storage queue.

S

Select a single CICS queue and return to the name for processing by the current function.

V

Perform a VIEW command against the CICS resource.

Queue

The 1–16 character CICS queue ID.

Loc

The location of the temporary storage queue:

AUX

The temporary storage queue is held in the CICS temporary storage VSAM data set.

MAIN

The temporary storage queue is held in main storage.

Items

The number of items currently on this queue.

Size

Total length of all the items for the queue.

Max

The length of the largest item in the queue.

Min

The length of the smallest item in the queue.

Tran

The identifier of the transaction that created the queue.

Last

The interval in seconds since the queue was last referenced.

SYS

The system ID of the CICS system on which the file has been defined.

Pool

The shared TS pool name. this is blank for a non-shared pool.

Parent panels

- [List CICS Resources Entry panel on page 131](#)
- Any ZDT/CICS entry panel where you use a wildcard when specifying a CICS resource name.

Child panels

- None.

Related tasks

- [Viewing queue names with unprintable characters on page 49](#)

CICS Transient Data Queue Selection List panel

The CICS Transient Data Queue Selection List panel shows all the queues that match the queue name and sysid values specified on the previous panel. Standard scrolling applies and you can sort all of the columns with exception of the status columns. You can also perform the following tasks:

- Open close and modify various queue attributes.
- Display catalog information for extrapartition data sets.
- Invoke various Z Data Tools functions against a queue.

Panel and field definitions

Figure 21. CICS Transient Data Queue Selection List panel

Process	Options	Help													
-----Z Data Tools CICS Transient Data Queue Selection List Row 00001 of 00051-----															
Queue	Type	SYS	INDQ	Tran	Term	User	Trig	Items	DDNam	DSP	O	E	I	O	+
*	*	*	*	*	*	*			*	*	P	N	U	C	
											E	A	P	T	K
— CADL	IND		CSSL												
— CADO	IND		CSSL												
— CAIL	IND		CSSL												
— CCPI	IND		CSSL												
— CCSE	IND		CCSO												
— CCSO	EXT								COUT	SHR	O	E		O	
— CCZM	IND		CSSL												
— CDBC	IND		CSSL												
— CDB2	IND		CSSL												
— CDUL	IND		CSSL												
— CEJL	IND		CSSL												
— CESE	EXT								CEEMSG	MOD	O	E		O	
— CESO	EXT								CEEOUT	MOD	O	E		O	
— CIEO	IND		CSSL												
Command ==>											Scroll PAGE				
F1=Help		F3=Exit		F4=CRetriev		F5=RFind		F7=Backward		F8=Forward					
F10=Left		F11=Right		F12=Cancel											

Prefix area (first column)

You can use the prefix area to enter the following commands:

- A
- Display and alter the CICS information associated with a given CICS resource, CICS files, or CICS enqueues. Transient data intrapartition and extrapartition only.
- B
- Perform a BROWSE command against the CICS TD queue.
- D
- Delete the CICS resource.
- E
- Perform an EDIT command against the CICS queue.
- I
- Perform an INFO command against the CICS resource if a z/OS data set is associated with it. This command displays the data set details and, for VSAM entries, also displays statistics and allocation information.

P

Print the CICS resource.

S

For option 3.4, the edit prefix command (E) is substituted for files and queues. For enqueues, the A (Attributes) prefix command is substituted. For any other function selection list, this selects the resource for the calling function.

V

Perform a VIEW command against the CICS resource.

X

Perform an EXTENTS command against the CICS resource if a z/OS data set is associated with it. This command displays the statistics and extent information for a data set.

Queue

The 1–4 character CICS queue ID.

Type

Type of queue:

IND

Indirect queue

EXT

Extrapartition queue

INT

Intrapartition queue

SYS

The System ID of the CICS system on which the file has been defined.

INDQ

(Indirect) The 1–4 character queue name that an indirect queue points to. This column is blank for other types of queues.

Tran

(Intrapartition) The 1–4 character transaction to be executed when CICS initiates a task automatically to process the queue. This column only applies to intrapartition queues and is protected for other types of queues. You can overtype the transaction ID with valid CICS transaction characters.

Term

(Intrapartition) The 1–4 character terminal or session associated with the queue. If the facility is a terminal, you can overtype this value with a valid terminal ID. This column only applies to intrapartition queues with a terminal facility.

User

(Intrapartition) The 1–8 character user identifier associated with the queue. If the facility is not a terminal, you can overwrite this value with a valid user ID. This column only applies to intrapartition queues without a terminal facility.

Trig

(Intrapartition) The number of items the queue must reach before automatic transaction initiation (ATI) occurs. You can overwrite this value with a valid number.

Items

(Intrapartition) The number of items currently on this queue.

DDNam

(Extrapartition) The DD name for the extrapartition queue.

DSP

(Extrapartition) The disposition of the extrapartition data set.

OPE

(Extrapartition) You can change the open status by overtyping the character with an O to open, or C to close.

ENA

You can change the enable status by overtyping the displayed character with an E to enable or D to disable. This field only applies to extrapartition and intrapartition queues.

INP

(Extrapartition) Indicates the extrapartition data set is opened for input.

OUT

(Extrapartition) Indicates the extrapartition data set is opened for output.

BCK

(Extrapartition) Indicates the queue is defined for input and is read backward.

EMP

(Extrapartition) Indicates that CICS has detected an empty (E) or full (F) status for the queue.

Parent panels

- [List CICS Resources Entry panel on page 131](#)
- Any ZDT/CICS entry panel where you use a wildcard when specifying a CICS resource name.

Child panels

- [Extrapartition Queue panel on page 114](#)
- [Intrapartition Queue panel on page 127](#)

Related tasks

Edit Entry panels

You use the Edit Entry panels to enter the name of a resource to be edited. You also use these panels to specify the name of the copybook or template that describes a logical view of the data set.

There are three different Edit Entry panels. The type of Edit Entry panel that ZDT/CICS displays depends on which **CICS Resource** you selected on the Primary Option Menu panel:

Table 4. Edit Entry panels

CICS Resource	Edit Entry panel displayed
File	Edit CICS File Entry panel
Temporary Storage	Edit Temporary Storage Entry panel
Transient Data	Edit Transient Data Entry panel

The Edit Entry panels are virtually identical to the corresponding Browse Entry panels with the following additional options:

- **Inplace edit**
- **Lock resource**
- **Name**
- **Create audit trail**

Each of the Edit Entry panels is shown below followed by a description of the four entry additional fields mentioned above. For an explanation of the other fields in this panel, see the field definitions in [Browse Entry panels on page 91](#).

Panel and field definitions

Figure 22. Edit CICS File Entry panel

<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp
ZDT/CICS Edit CICS File Entry Panel		
Input CICS VSAM File:		
File name	_____	
Sysid	_____	
Start position	_____	
Record limit	_____	Record sampling _____
Inplace edit	_____	Prevent inserts and deletes _____
Lock resource	_____	Name _____
Copybook or Template:		
Data set name	_____	
Member	_____	Blank or pattern for member list
Processing Options:		
Copybook/template	Start position type	Enter "/" to select option
3 1. Above	1. Key	Edit template Type (1,2,S)
2. Previous	2. RBA	Include only selected records
3. None	3. Record number	Create audit trail
4. Create dynamic		
Command ===> _____ Applid _____		
F1=Help	F3=Exit	F4=Expand F7=Backward F8=Forward F10=Left
F11=Right	F12=Cancel	

Figure 23. Edit Temporary Storage Entry panel

<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp
ZDT/CICS Edit Temporary Storage Entry Panel		
Input Temporary Storage Queue:		
Queue name	_____	(Case sensitive)
Sysid	_____	
Pool name	_____	
Start position	_____	Record number
Record limit	_____	Record sampling _____
Inplace edit	_____	Prevent inserts and deletes _____
Lock resource	_____	Name _____
Copybook or Template:		
Data set name	_____	
Member	_____	Blank or pattern for member list
Processing Options:		
Copybook/template	Start position type	Enter "/" to select option
3 1. Above	1. Key	Edit template Type (1,2,S)
2. Previous	2. RBA	Include only selected records
3. None	3. Record number	Create audit trail
4. Create dynamic		
Command ===> _____ Applid _____		
F1=Help	F3=Exit	F4=Expand F7=Backward F8=Forward F10=Left
F11=Right	F12=Cancel	

Figure 24. Edit Transient Data Entry panel

Process	Options	Help
ZDT/CICS Edit Transient Data Entry Panel		
Input Transient Data Queue:		
Queue name	_____	(Case sensitive)
Sysid	_____	
Start position	_____	Record number
Record limit	_____	Record sampling _
Inplace edit	_____	Prevent inserts and deletes
Lock resource	_____	Name _____
Copybook or Template:		
Data set name	_____	
Member	_____	Blank or pattern for member list
Processing Options:		
Copybook/template	Enter "/" to select option	
3 1. Above	_____	Edit template _ Type (1,2,S)
2. Previous	_____	Include only selected records
3. None	_____	Create audit trail
4. Create dynamic	_____	
Command ===> _____ Applid _____		
F1=Help	F3=Exit	F4=Expand F7=Backward F8=Forward F10=Left
F11=Right	F12=Cancel	

Inplace edit

If you select this option, the edit session does not allow you to insert or delete records.

If Inplace edit is not selected for queues, then ZDT/CICS uses an auxiliary file to allow rewriting of the data.

You must select **Inplace edit** when using any of the following:

- A segmented record type data set (as indicated by your chosen template)
- Record sampling
- A record limit of "MEMORY"
- A VSAM data set defined as NOREUSE

Lock resource

Causes a CICS enqueue to be issued with the enqueue resource name specified in the corresponding **Name** field during the Edit session. The enqueue is issued on the local system that is running ZDT/CICS.

When editing TS and TD queues, ZDT/CICS also issues a CICS enqueue that occurs regardless of the Lock setting. The enqueue is issued on the **local system** that is running ZDT/CICS. This prevents concurrent update access against a TS or TD queue by multiple ZDT/CICS instances on the same system. ZDT/CICS uses the following naming convention for the internally generated CICS enqueue resource name: `FMLLOCK:xxsysidname` where:

xx

TD or TS.

sysid

The ID of the CICS system where the resource resides. A blank value indicates the resource resides on the local system.

name

The name of the queue.

Name

If the **Lock resource** field is selected, ZDT/CICS issues a CICS enqueue with the resource name specified in this field for the duration of the Edit session. ZDT/CICS issues the CICS enqueue with a resource length of 255 and pads all unused characters with blanks.

Create audit trail

Determines if ZDT/CICS generates an audit report of all successful modifications to data made during an Edit session.

The display of this option depends on whether SAF-rule controlled auditing is in effect. See "SAF-rule controlled auditing" in the *Z Data Tools User's Guide and Reference for DB2 Data*.

The ability to change this option depends on the installation options (in the HFM3POPT macro). The **Create audit trail** option can be:

- When your system administrator has enforced audit logging, the **Create audit trail** option in this panel is ignored.
- When your system administrator has not enforced audit logging, you can set this option on or off for any particular editing task. Type a "/" in the option entry field to generate audit reporting for the current Edit session.

For more information about setting the Audit Trail options, refer to the *Z Data Tools Customization Guide* or see your systems administrator.

Parent panels

- [Primary Option Menu panels on page 133](#)

Child panels

The next panel displayed depends on the options selected in the Edit Entry panel.

Related tasks

- [Viewing and changing CICS resources on page 40](#)

Extrapartition Queue panel

The Extrapartition Queue panel displays the CICS information for the associated queue. You can change the status of the queue from this panel.

You can change the status fields on this panel and view the other information. If the status change fails, you are provided with the CICS command (func=) and error codes which are found in the command code section of the CICS Application Programming Reference. If the request fails, the displayed status represent the current status of the queue.

Panel and field definitions

Figure 25. Extrapartition Queue panel

<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp

ZDT/CICS	Extrapartition Queue CAFF	
General	Open	Enabled
Status	OPEN	ENABLED
Sysid		
DDname	CAFF	
Disposition . . .	SHR	
Sysout Class . . .	*	
Record Format . .	V	
Record Length . .	133	
Blocksize	137	
Attributes	OUTPUT	IGNORERR
Command ==> _____ Scroll <u>C</u> SR		

Open

You can change the open status by overtyping the first character with an O to open, or C to close. The following status values can be displayed:

OPEN

Queue is open

OPENING

Queue is being opened

CLOSED

Queue is closed

CLOSING

Queue is being closed

Enabled

You can change the enable status by overtyping the first character with an E to enable, or D to disable. The following status values can be displayed:

DISABLED

Queue is disabled

DISABLING

Queue is being disabled

PENDING

Queue is being pending

ENABLED

Queue is enabled

Sysid

This value is blank for the local system on which Z Data Tools is running and represents the connection ID for remote resources.

DDname

8-character identifier (padded with blanks if necessary) that may refer to a data set name used in the startup JCL.

Data set name

A 1–44 character name that indicates an associated QSAM data set, or DUMMY data set.

Disposition

The disposition for the associated data set:

MOD

The system first assumes that the data set exists. For an existing data set, MOD causes the read/write mechanism to be positioned after the last record in the data set. The read/write mechanism is positioned after the last record each time the data set is opened for output. If the system cannot find volume information for the data set on the DD statement, in the catalog, or passed with the data set from a previous step, the system assumes that the data set is being created in this job step. For a new data set, MOD causes the read/write mechanism to be positioned at the beginning of the data set.

NOTAPPLIC

The option does not apply because the queue is not open or is not an extrapartition queue.

OLD

The data set existed before this job step.

SHR

The data set existed before this job step and can be read by other concurrent jobs.

Sysout Class

A single character indicating the class attribute of the associated SYSOUT data set.

Record Format

FIXED or VARIABLE to indicate whether the queue has fixed or variable length records.

Record Length

The record length (in bytes) for queues having fixed-length records, or the maximum record length for queues having variable-length records.

Blocksize

The length of the block in bytes (in the range 1–32767).

Attributes

Describes attributes of the queue:

BACKWARD

The input queue is read backwards

INPUT

This is an input queue

OUTPUT

This is an output queue

EMPTY

The queue is empty

FULL

The queue is full

IGNORERR

A block that causes an I/O error will be accepted

SKIP

A block that causes an I/O error will be skipped

LEAVE

The current tape is positioned to the logical end of the data set

REREAD

The current tape is positioned to reprocess the data set

Parent panels

- [CICS Transient Data Queue Selection List panel on page 107](#)

Child panels

- None.

Related tasks

File Information panel

You use the File Information panel to display the CICS file control information for the associated file. You can change the status of the file and various attributes from this panel.

Panel and field definitions

Figure 26. File Information panel

Process	Options	Help

ZDT/CICS	File Information FMKSDS5	
Changeable:		
Status	Open	Enabled
Data Set Name . .	OPEN	ENABLED
Strings	HFM.CICS.TEST.KSDS.FIXED.RECOVER'	READ UPDATE ADD BROWSE DELETE
Disposition	5	
1. SHR	2. OLD	
1. Not applicable	2. No RLS	
2. Consistent	3. Repeatable	
3. Uncommitted		
General:		
Sysid	Type	
Key position . . .	Key length . . .	
LSR Pool value . .	Record size . . .	
Journal number . .	Attributes . . .	
FWDRECOV RECOV LOCKING		
Command ==> _____ Scroll CSR		

Changeable

This section of the panel contains file attributes that you can alter. Any change causes a close of the file, followed by an attempted change with attributes you have requested. If the request fails, you are provided with the CICS command (func=) and error codes which can be located in the CICS Application Programming Reference under the command code section. If the request fails, the displayed attributes represent the current status of the file.

Open

You can change the open status by overtyping the first character with "O" to open, or "C" to close. The following status values can be displayed:

OPEN

File is open.

OPENING

File is being opened.

CLOSED

File is closed.

CLOSING

File is being closed.

CLOSEREQ

A close has been requested.

Enabled

You can change the enable status by overtyping the first character with "E" to enable, or "D" to disable. The following status values can be displayed:

DISABLED

File is disabled.

DISABLING

File is being disabled.

ENABLED

File is enabled.

UNENABLED

File is closed unenabled.

UNENABLING

File is being unenabled.

Read

This field has either the value READ or blanks. To change the status, type "R" in the first byte to set the status, or clear the field to disallow READ to the file.



Note: The read status can only be cleared when **Browse**, **Update**, and **Delete** are also cleared.

Update

This field has either the value UPDATE or blanks. To change the status, type "U" in the first byte to set the status, or clear the field to disallow updates to the file.

Add

This field has either the value ADD or blanks. To change the status, type "A" in the first byte to set the status, or clear the field to disallow ADDs to the file.

Browse

This field has either the value BROWSE or blanks. To change the status, type "B" in the first byte to set the status, or clear the field to disallow BROWSE to the file.

Delete

This field has either the value DELETE or blanks. To change the status, type "D" in the first byte to set the status, or clear the field to disallow DELETes to the file.

Data Set Name

This field contains the associated data set name. You can enter a fully-qualified or generic data set name to change the name. In a generic data set name, use the percent (%) sign to represent a single character, and an asterisk (*) to represent any number of characters within one qualifier. Two asterisks (**) represent any number of qualifiers.

Strings

This field contains the string number value associated with a VSAM file. It is a value within the range 1–255.

Disposition

You can change the disposition by changing the selection number:

- 1
DISP=SHR
- 2
DISP=OLD

RLS Access

You can change the RLS access value by changing the selection number:

- 1
Does not apply to remote or BDAM data set.
- 2
The data set is not accessed in RLS mode.
- 3
The data set is accessed in RLS mode.



Note: You may get errors opening a file on CICS systems where RLS is not supported.

Read Integrity

You can change the read integrity by changing the selection number:

- 1
Does not apply to VSAM accessed in non-RLS mode, remote, BDAM, or CFDT files.
- 2

Consistent. Read requests for this file are subject to consistent read integrity (unless otherwise specified on the read request).

3

Repeatable. Read requests for this file are subject to repeatable read integrity (unless otherwise specified on the read request).

4

Uncommitted. No read integrity for this file.

General:

The following fields are values that cannot be changed for the associated CICS file:

SYSID

Blank for the local system on which Z Data Tools is running and represents the connection ID for remote resources.

Type

VSAM or BDAM for closed files. If a VSAM file is open, this field contains KSDS, ESDS, AIX, PATH, RRDS, VRRDS values describing the type of VSAM file. For CICS data tables, **Type** contains TABL.

Key position

Shown for VSAM files with a keylength > 0 and is the starting position of the key.

Key length

Shown for VSAM files with a keylength > 0 and is the key length.

LSR Pool value

Number indicating the VSAM LSR pool associated with this file. In the range 1–8.

Record size

Maximum record size for variable files or record length for fixed files.

Journal number

A number between 1 and 99 corresponding to the number of the journal to which CICS writes information required for auto journaling. A value of 0 indicates JOURNAL(NO) is specified for the file.

Attributes

The following literals are displayed describing various attributes of the file:

Emptyreq

A reusable VSAM file is reset on open.

Load

The coupling facility data table is, or is to be, preloaded from a source data set.

FWDRECOV

The file is forward recoverable.

RECOV

The file is recoverable.

CFTABLE

Coupling facility data table.

CICSTABLE

CICS-maintained data table.

USERTABLE

User-maintained data table.

KEYED

The data is addressed by physical keys

CONTENTION

The coupling facility data table is updated using the contention model.

LOCKING

The coupling facility data table is updated using the locking model.

EXTENDED

This VSAM data set uses extended relative byte addressing.

Table name

Shown for coupling facility data tables and is the coupling facility data table name.

Table pool

Shown for coupling facility data tables and is the name of the coupling facility data table pool in which the coupling facility data table resides.

Max records

Shown for data tables and indicates the maximum number of records that the data table for this file can hold. A value of 0 may indicate the resource was defined with NOLIMIT.

Parent panels

- [CICS File Selection List panel on page 102](#)

Child panels

- None.

Z Data Tools for CICS Logon panels

There are two forms of the Z Data Tools for CICS Logon panel.

The batch invocation panel is displayed when `START=BATCH` is in effect at logon. It submits a batch job that invokes ZDT/CICS. The non-batch invocation panel is displayed when `START=TASK` is in effect at logon.

Panel and field definitions

Figure 27. Z Data Tools for CICS Logon panel - batch invocation

----- Z Data Tools for CICS Logon -----

Enter Logon parameters

Userid HFMUSER

Password New Password . . .

Node PTHAPD0 (Machine the job is to be run on)

Procedure. HFM3CICB (Procedure to run Z Data Tools)

Profile data set . . . HFMUSER.HFI.HFIPROF

Prefix HFMUSER (Default prefix for data sets)

Jobcard

//FM&TERM.B JOB (,,,),&USER,

// MSGCLASS=A,MSGLEVEL=(1,1),CLASS=A

F1=Help F3=Logoff F4=Reset F5=Wait F6=Default F12=Cancel

Enter=Submit

Figure 28. Z Data Tools for CICS Logon panel - non-batch invocation

----- Z Data Tools for CICS Logon -----

Enter Logon parameters

Userid HFMUSER

Password

New Password

Profile data set . . . HFMUSER.HFI.HFIPROF

Prefix HFMUSER (Default prefix for data sets)

Port 2054

Host name

F1=Help F3=Logoff F4=Reset F6=Default F12=Cancel

Userid

A 1–7 character MVS userid. For batch invocation, this is the owner of the submitted job. This is specified when invoking the Z Data Tools transaction.

Password

(Batch invocation.) The current password for the MVS userid. The password is not visible during logon.

(Non-batch invocation.) The current password or passphrase for the MVS userid.

New Password

A new password (if you want to change the current password for the MVS userid).

(Non-batch invocation only.) You can enter a passphrase of up to 100 characters.

Node

(Batch invocation only.) The 1–8 character machine Node on which the job is to run. A `/*ROUTE XEQ`
`node.user` statement is added after the job card to run the job on the specified machine.

Procedure

(Batch invocation only.) The 1–8 character procedure name that has been set up to run Z Data Tools on your system. The default procedure is HFM3CICB.

Profile data set

The profile data set used to save session information for subsequent invocations.

Prefix

1–8 character value used as the prefix high-level qualifier when specifying unquoted data sets during the Z Data Tools session.

Jobcard

(Batch invocation only.) The jobcard used for the submitted job. The jobcard can use the following variables which are substituted when the job is submitted:

&TERM

The current 1–4 character terminal ID is substituted.

&USER

The current 1–7 character MVS userid is substituted.



1. You can terminate the variable with a period which will also be removed during substitution.
2. The jobcard should be unique and assigned to a class where it will run immediately.

Port

(Non-batch invocation only.) Port number which used to connect to the ZCC server. This value is defined in the HFM3POPT options module currently loaded.

Host name

(Non-batch invocation only.) Host name of the system where the ZCC server is running. This value is defined in the HFM3POPT options module currently loaded. If a host name is blank, then ZDT/CICS obtains and uses the host name of the current system.

The function keys are:

F1

Help panel.

F3

Exit. Exit Z Data Tools and save logon parameters.

F4

Reset. Restore logon parameters as at start of session.

F5

(Non-batch invocation only.) Wait. Use this to tell Z Data Tools to wait another 20 seconds when the batch job has not been responding.

F6

Default: Change the logon parameters to the installation defaults.

F12

Cancel. Exit Z Data Tools without saving logon parameters.

Parent panels

- CICS logon panel

Child panels

- [Primary Option Menu panels on page 133](#)

Related tasks

[Starting ZDT/CICS on page 15.](#)

HFM Keylist Change panel

You use the HFM Keylist Change panel to display and modify the keys for the current function.

Panel and field definitions

Figure 29. HFM Keylist Change panel

HFM Keylist HFMKZOED Change				More: +	
Keylist Help Panel Name . . . <u>HFMRKZED</u>					
Key	Definition	Format	Label		
F1 . . .	HELP	SHORT	Help		
F2 . . .	ZOOM	SHORT	Zoom		
F3 . . .	EXIT	SHORT	Exit		
F4 . . .	CRETRIEV	LONG	CRetrieV		
F5 . . .	RFIND	SHORT	RFind		
F6 . . .	RCHANGE	SHORT	RChange		
F7 . . .	UP	LONG	Up		
F8 . . .	DOWN	LONG	Down		
F9 . . .	SWAP	LONG	Swap		
F10. . .	LEFT	LONG	Left		
F11. . .	RIGHT	LONG	Right		
F12. . .	CANCEL	SHORT	Cancel		
Command ==> -----					
PF 1=HELP	2=TOP	3=END	4=RETURN	5=BOTTOM	6=LOCATE
PF 7=UP	8=DOWN	9=PRINT	10=LEFT	11=RIGHT	12=CRETRIEV

You can change the current key list values by the values displayed. You can scroll up and down to view all the function key values.

The fields shown on the Function keys change panel are:

Keylist help panel name

The name of the help panel for this keylist.

Key

Function key

Definition

The command for each assigned function key.

FORMAT

You can enter one of the following values:

LONG

Indicates that you want this key label to display only when you request the long form of the function key area. Long is the default.

SHORT

Indicates that you want this key label to display when you request either the short or long form of the function key area.

NO

Indicate that the key label should never be displayed in the function key area.

Label

Enter the label you want to appear with each assigned function key.

Parent panels

- Any ZDT/CICS panel.

Child panels

- None.

Related tasks

- [Changing the current key list values on page 35](#)

Intrapartition Queue panel

You use the Intrapartition Queue panel to display the CICS information for the associated queue. You can change the status of the queue from this panel.

Panel and field definitions

Figure 30. Intrapartition Queue panel

Process	Options	Help

ZDT/CICS	Intrapartition Queue CSZX	
Changeable:		
Status	. . . . .	ENABLED
Transaction	. . .	CZUX
Terminal	. . . .
User	. . . . .	CICSUSER
Trigger level	. .	1
Facility		
1	1. No Terminal	
	2. Terminal	
General:		
Sysid	. . . . .
Number of items	. .	0
Attributes	. . .	NOTRECOVERABLE
Command ==> _____ Scroll CSR		

Changeable fields

This section of the panel contains queue attributes that you can alter. Any change causes the associated queue to be disabled followed by an attempted change with attributes you have requested. If the request fails, you are provided with the CICS command (func=) and error codes which can be found in command code section of the CICS Application Programming Reference. If the request fails, the displayed attributes represent the current status of the queue.

Enabled

You can change the enable status by overtyping the first character with an E to enable, or D to disable. The following status values can be displayed:

DISABLED

Queue is disabled

DISABLING

Queue is being disabled

PENDING

Queue is being pending

ENABLED

Queue is enabled

Transaction

The 1–4 character transaction to be executed when CICS initiates a task automatically to process the queue. You can overwrite the transaction ID with valid CICS transaction characters.

Terminal

The 1–4 character terminal or session associated with the queue. If the facility is set to terminal, then you can overwrite this value with a valid terminal ID.

User

The 1–8 character user identifier associated with the queue. If the facility is not a terminal, you can overwrite this value with valid user ID.

Trigger level

The number of items the queue must reach before automatic transaction initiation (ATI) occurs. You can overwrite this value with a valid number.

Facility

Indicates whether a terminal is associated with queue:

1

No terminal associated with queue

2

Terminal associated with queue

General

The following fields cannot be changed for the associated CICS queue:

Sysid

Blank for the local system on which Z Data Tools is running, and represents the connection ID for remote resources.

Number of items

The number of items currently on this queue.

Attributes

Describes attributes of the queue:

QUEUE

The UOW is in doubt and waiting; any locks held by the UOW for this queue remain active until the final state of the UOW is known. This means that tasks are suspended rather than receiving the LOCKED response. When the final state of the UOW is known, any changes that it has made are committed or backed out. Until then, any further requests of the following types that need one of the active locks must wait:

READQ

The in doubt UOW has issued READQ or DELETEDQ requests.

WRITEQ

The in doubt UOW has issued WRITEQ or DELETEDQ requests.

DELETEDQ

The in doubt UOW has issued READQ, WRITEQ, or DELETEDQ requests.

REJECT

The UOW is in doubt and waiting, and any locks held by the UOW for this queue are retained until the final state of the UOW is known. When the final state is known, any changes it has made are committed or backed out. Until then, any further requests that need one of the retained locks are rejected, and a LOCKED condition is returned. REJECT causes LOCKED to be raised in exactly the same circumstances as those in which QUEUE causes a transaction to wait.

WAIT

The UOW is to wait and any action required while waiting is determined by the WAITACTION option.

NOWAIT

The UOW is not to wait, and any changes made to recoverable resources are to be backed out or committed, as specified by the ACTION attribute on the transaction resource definition.

LOGICAL

The queue is logically recoverable.

NOTRECOVERABLE

The queue is not recoverable.

PHYSICAL

The queue is physically recoverable.

Parent panels

- [CICS Transient Data Queue Selection List panel on page 107](#)

Child panels

- None.

Related tasks

ZCC Settings panel

You use the ZCC (Z Common Components) Settings panel to change various options and terminal characteristics that affect the way information is displayed on your screen.

Panel and field definitions

Figure 31. ZCC (Z Common Components) Settings panel

```

Command ==> _____ ZCC _____

Options:
  Enter "/" to select option
  / Command line at bottom
  / Panel display CUA mode
  / Tab to action bar choices
  - Graphic border

Terminal Characteristics:
  Screen format  2  1. Data    2. Std    3. Max
  Terminal type  1  1. 3270    2. 3270KN
PF 1=HELP      2=TOP      3=END      4=RETURN    5=BOTTOM    6=LOCATE
PF 7=UP        8=DOWN     9=PRINT   10=LEFT    11=RIGHT    12=CRETRIEV
  
```

Command line at bottom

Determines whether the command line and long message line appear at the bottom of your panel.

Panel display CUA mode

Determines whether the panel is displayed in CUA mode and action bars are displayed.

Tab to action bar choices

Determines whether the Tab key positions the cursor on action bar choices when not running in GUI mode.

Graphic Border

Determines whether you can force dotted lines if the action bar separator line or borders are not displayed correctly.

Screen Format

Determines the screen formatting. The supported formats are:

DATA (1)

Alternate screen sizes are used for expandable panels only.

STD (2)

Always format 24 lines by 80 characters

MAX (3)

Always uses the alternate screen size

Terminal Type

Determines the terminal type. The supported types are as follows:

3270 (1)

Terminal does not support Japanese Katakana characters.

3270KN (2)

Terminal supports Japanese Katakana characters.

Parent panels

- Any ZDT/CICS panel.

Child panels

- None.

Related tasks

- [Changing terminal characteristics on page 34](#)

List CICS Resources Entry panel

You use the List CICS Resources Entry panel to list the resources matching the entered name, sysid, and TS pool.

Panel and field definitions

Figure 32. List CICS Resources Entry panel

Process	Options	Help
ZDT/CICS	List CICS Resources Entry Panel	
CICS File, Transient Data, Temporary Storage Queue, or Enqueue Name:		
Resource name	. . . _____	
Sysid _____	
TS pool name _____	
Processing Options:		
CICS Resource		
1	1. File	
	2. Temporary Storage (Case sensitive)	
	3. Transient Data (Case sensitive)	
	4. Enqueue	
Command ===> _____ Applid _____		
F1=Help	F3=Exit	F4=Expand F7=Backward F8=Forward F10=Left
F11=Right	F12=Cancel	

Resource name

A 1–36 character resource name used in conjunction with **Sysid** to produce a list of matching resources. It can also be used in conjunction with **TS pool name** for TS queues.

You can enter a fully-qualified or generic resource name. In a generic resource, use the % sign to represent a single character, and an asterisk (*) to represent any number of characters.

If Temporary Storage or Transient Data is selected as the CICS resource type, the value entered in the **Resource name** input field is case sensitive.

Sysid

The ID of the CICS systems where the resource resides. A blank value defaults to the local system.

You can enter a fully qualified or generic sysid. In a generic sysid, use the % sign to represent a single character, and an asterisk (*) to represent any number of characters.

TS pool name

Pool Name (TS Data sharing only) (Default blanks) This is used to specify the pool name of a shared temporary storage pool and temporary storage processing is shipped to the temporary storage server that manages the pool. You can enter a fully qualified or generic pool name. In a generic pool name use the % sign to represent a single character, and an asterisk * to represent any number of characters. If you specify a SYSID value and a TS Pool name then a list of queues that match either is produced from which you can select the appropriate queue for processing.

CICS Resource

CICS resource processing type:

1. File

CICS files

2. Temporary Storage

CICS temporary storage queues

3. Transient Data

CICS transient data queues

4. Enqueue

CICS enqueues

Parent panels

- [Utility Functions panel on page 143](#)

Child panels

- [CICS File Selection List panel on page 102](#)
- [CICS Temporary Storage Selection List panel on page 105](#)
- [CICS Transient Data Queue Selection List panel on page 107](#)
- [CICS Enqueue Selection List panel on page 100](#)

Related tasks

- [Working with lists of CICS resources on page 48](#)
- [Working with CICS enqueues on page 53](#)

Primary Option Menu panels

The Primary Option Menu panel is the starting point for all ZDT/CICS operations.

Panel and field definitions

Figure 33. Z Data Tools Primary Option Menu panel

Process	Options	Help
ZDT/CICS Primary Option Menu		
0	Settings	Set processing options
1	Browse	Browse data
2	Edit	Edit data
3	Utilities	Perform utility functions
4	Templates	Template and copybook utilities
B	ZDT	Z Data Tools
I	ZDT/IMS	Z Data Tools for IMS
D	ZDT/Db2	Z Data Tools for Db2
X	Exit	Terminate ZDT/CICS
User ID . : JHELVON Appl ID . : HFM3 CICS User : CICSUSER CICS Appl : C62D2FM3 Date. . . : 2018/12/12		
Processing Options:		
CICS Resource		
1	1. File	
	2. Temporary Storage	
	3. Transient Data	
Command ==>		
F1=Help	F3=Exit	F4=CRetrie F7=Backward F8=Forward F10=Actions
F12=Cancel		

0 Settings

Displays the Set Processing Options panel.

1 Browse

Displays one of the Browse Entry panels. The type of Browse Entry panel displayed is determined by the setting of the **CICS Resource** field.

2 Edit

Displays one of the Edit Entry panels. The type of Edit Entry panel displayed is determined by the setting of the **CICS Resource** field.

3 Utilities

Displays the Utility Functions panel.

4 Templates

Displays the Z Data Tools "base" Template Workbench panel.

B ZDT

Displays the Z Data Tools "base" Primary Option Menu panel.

I ZDT/IMS

Displays the Z Data Tools IMS Component Primary Option Menu panel.

D ZDT/Db2

Displays the Z Data Tools Db2® Component Primary Option Menu panel.

X Exit

Exits from ZDT/CICS.

CICS Resource

The type of CICS resource you want to work with:

1. File

Select this option to work with CICS files.

2. Temporary Storage

Select this option to work with CICS temporary storage queues.

3. Transient Data

Select this option to work with CICS transient data queues.

The Z Data Tools and ZDT options **only** appear on the Primary Option Menu if your user ID is authorized.

If you are running ZDT/CICS under ISPF, a modified ZDT/CICS Primary Option Menu panel is displayed.

Figure 34. ZDT/CICS Z Data Tools Primary Option Menu panel (when using ISPF)

Process	Options	Help
ZDT/CICS		Primary Option Menu
1	View	View data
2	Edit	Edit data
3	Print	Print data
4	List	List resources
X	Exit	Terminate ZDT/CICS
Processing Options:		
CICS Resource		
<u>1</u>	1. File	
	2. Temporary Storage	
	3. Transient Data	
Command ==>		
F1=Help	F3=Exit	F4=CRetrie
F12=Cancel		F7=Backward F8=Forward F10=Actions

1 View

Displays one of the View Entry panels. The type of View Entry panel displayed is determined by the setting of the **CICS Resource field**.

2 Edit

Displays one of the Edit Entry panels. The type of Edit Entry panel displayed is determined by the setting of the **CICS Resource field**.

3 Print

Displays one of the Print Entry panels. The type of Print Entry panel displayed is determined by the setting of the **CICS Resource field**.

4 List

Displays the List CICS Resources Entry panel.

X Exit

Exits from ZDT/CICS.

CICS Resource

Same as definition for [Primary Option Menu panels on page 133](#).

Parent panels

[Z Data Tools for CICS Logon panels on page 123](#)

Child panels

- [Set Processing Options panel on page 142](#)
- [Browse Entry panels on page 91](#)
- [Edit Entry panels on page 111](#)
- [Print Entry panels on page 136](#)
- [List CICS Resources Entry panel on page 131](#)
- [Utility Functions panel on page 143](#)
- “*Set DBCS Format panel*” in the Z Data Tools User’s Guide and Reference
- “*Print Audit Trail panel*” in the Z Data Tools User’s Guide and Reference

Related tasks

- [Starting ZDT/CICS on page 15](#)
- [Specifying resource names in Z Data Tools \("base"\) on page 38](#)
- [Running Z Data Tools "base" functions against CICS resources on page 38](#)
- [Working with ZDT/CICS utilities on page 46](#)

Print Entry panels

You use the Print Entry panels to enter the name of a resource to be browsed. You also use these panels to specify the name of the copybook or template that describes a logical view of the data set.

There are three different Print Entry panels. The type of Print Entry panel that ZDT/CICS displays depends on which **CICS Resource** you selected on the previous panel (Utility Functions or Primary Option Menu):

Table 5. Print Entry panels

CICS Resource	Print Entry panel displayed
File	Print CICS File Entry panel
Temporary Storage	Print Temporary Storage Entry panel

Table 5. Print Entry panels (continued)

CICS Resource	Print Entry panel displayed
Transient Data	Print Transient Data Entry panel

Each of the Print Entry panels is shown below, followed by a list of entry fields covering all three panels. Most of the entry fields are common to all three panels. Where an entry field is not common to all three panels, the panel to which it applies is indicated.

Panel and field definitions

Figure 35. Print CICS File Entry panel

Process	Options	Help
ZDT/CICS Print CICS File Entry Panel		
Input CICS VSAM File:		
File name	_____	
Sysid	_____	
Start key	_____	key or slot
Skip count	_____	number of records to be skipped
Print count	ALL _____	number of records to be printed
Copybook or Template:		
Data set name	_____	
Member	_____	(Blank or pattern for member list)
Processing Options:		
Print Option	Copybook/template/access	Enter "/" to select option
1. Char	3 1. Above	— Edit template _ Type (1,2,S)
2. Hex	2. Previous	— Use proc _____
3. Sngl	3. None	
4. Tabl	4. Create dynamic	— Additional print options
Command ===> _____ Applid _____		
F1=Help	F3=Exit	F4=Expand F7=Backward F8=Forward F10=Actions
F12=Cancel		

Figure 36. Print Temporary Storage Entry panel

Process	Options	Help
ZDT/CICS Print Temporary Storage Entry Panel		
Input Temporary Storage Queue:		
Queue name	_____	(Case sensitive)
Sysid	_____	
Pool name	_____	
Skip count	_____	number of records to be skipped
Print count	ALL _____	number of records to be printed
Copybook or Template:		
Data set name	_____	
Member	_____	(Blank or pattern for member list)
Processing Options:		
Print Option	Copybook/template/access	Enter "/" to select option
1. Char	3 1. Above	— Edit template
2. Hex	2. Previous	— Use proc _____
3. Sngl	3. None	
4. Tabl	4. Create dynamic	— Additional print options
Command ===> _____ Applid _____		
F1=Help	F3=Exit	F4=Expand F7=Backward F8=Forward F10=Actions
F12=Cancel		

Figure 37. Print Transient Data Entry panel

Process	Options	Help
ZDT/CICS Print Transient Data Entry Panel		
Input Transient Data Queue:		
Queue name	_____	(Case sensitive)
Sysid	_____	
Skip count	_____	number of records to be skipped
Print count	ALL _____	number of records to be printed
Copybook or Template:		
Data set name	_____	
Member	_____	(Blank or pattern for member list)
Processing Options:		
Print Option	Copybook/template/access	Enter "/" to select option
— 1. Char	<u>3</u> 1. Above	— Edit template
— 2. Hex	2. Previous	— Use proc _____
— 3. Sngl	3. None	
— 4. Tabl	4. Create dynamic	— Additional print options
Command ===> _____ Applid _____		
F1=Help	F3=Exit	F4=Expand F7=Backward F8=Forward F10=Actions
F12=Cancel		

File name (CICS resource: File only)

The 1–8 character name of the file you want to print. It is used in conjunction with **Sysid** to produce a list of matching resources.

You can enter a fully-qualified or generic resource name. In a generic resource, use the percentage sign (%) to represent a single character, and an asterisk (*) to represent any number of characters.

Queue name (CICS resource: Temporary Storage only)

The 1–16 character name of the temporary storage queue you want to print. It is used in conjunction with **Sysid** to produce a list of matching resources.

You can enter a fully-qualified or generic resource name. In a generic resource, use the percentage sign (%) to represent a single character, and an asterisk (*) to represent any number of characters.

This input field is case sensitive.

To view or enter the hex value of a TS queue name, place the cursor on the field and enter the EXPAND primary command (or equivalent function key). Enter the HEX ON command from within the expand pop-up panel to view and enter hex values.

Queue name (CICS resource: Transient Data only)

The 1–4 character name of the transient data queue you want to print. It is used in conjunction with **Sysid** to produce a list of matching resources.

You can enter a fully-qualified or generic resource name. In a generic resource, use the percentage sign (%) to represent a single character, and an asterisk (*) to represent any number of characters.

This field is case sensitive.

Sysid

The ID of the CICS systems where the resource resides. A blank value defaults to the local system.

You can enter a fully-qualified or generic sysid. In a generic sysid, use the % sign to represent a single character, and an asterisk (*) to represent any number of characters.

Pool name (CICS resource: Temporary Storage only)

The TS pool name of a shared temporary storage pool and temporary storage processing shipped to the temporary storage server that manages the pool.

You can enter a fully-qualified or generic pool name. In a generic pool name use the percentage sign (%) to represent a single character, and an asterisk (*) to represent any number of characters.

If you specify a **Sysid** value and a TS Pool name, then a list of queues that match either is produced from which you can select the appropriate queue for processing.

Start key (CICS resource: File only)

The starting key or slot location for a VSAM file

This field is scrollable and can be expanded with the EXPAND primary command (or equivalent function key). See [Scrollable input and display fields for long names on page 21](#).

Skip count

The number of records to be skipped before processing begins

Print count

The number of records to be printed

Copybook or Template: Data set name and Member

These fields identify either a copybook or a template to be used to select records and format the print output. If a copybook is specified, it is compiled to create a temporary template that can optionally be saved if edit was requested.

Print Option

The format of the printed output:

Char

Records are printed in character format.

Hex

Records are printed in hexadecimal format. The DUMP processing option on the Set Processing Options panel determines how HEX data is printed. See [Set Processing Options panel on page 142](#).

Sngl

Single record format (one field on each line of the display). The left-hand side of the printout contains the field or header names. The right-hand side contains the field values formatted according to the field type. A template is required for this option.

In this print format, additional field information (redefined fields, field reference number, field type and length values, picture clause, start location, structure) can be printed depending on the Edit/Browse options. Numeric fields can be left-justified depending on the options.

Tabl

Tabular format (fields printed across the display). The records are displayed in columns with field or heading names as column headers and the data formatted according to the field types. In this format, the display might be truncated depending on the current print width. A template is required for this option.

Copybook/template/access

Use this option to specify if you want to use a template, or how records are to be printed.

Above

ZDT/CICS uses the template specified on the panel. (If you specified a copybook, then Z Data Tools compiles the copybook into a template before use.)

Previous

ZDT/CICS uses the last template you used to process this resource. If you have not previously used a template for this data set, a message is displayed and processing continues without using a template.

None

ZDT/CICS does not use a template. SNGL and TABL print formats are not available.

Create dynamic

ZDT/CICS creates a dynamic template. You can now define fields and field creation attributes.

Edit template

ZDT/CICS opens the template you have specified for editing, before processing the panel.



Note: For details about using templates, see *“Creating and editing templates”* in the Z Data Tools User's Guide and Reference.

Type (1,2,S)

The type of editing you want to perform.

You can specify one of the following values:

1

Edit the Record Identification Criteria by field first

2

Edit the Record Selection Criteria by field first

S

Edit the source definition for a template using the advanced copybook selection facility.

This option is ignored when editing a dynamic template.

Use proc

Use this option to specify a procedure to search and change the data, rather than using the Find and Change commands. When you select the option, you can perform one of these actions:

- Choose to create a temporary procedure for one-time use by entering a single asterisk (*). ZDT/CICS displays an Edit panel, in which you can create the procedure.
- Specify the name of the member containing the procedure you want to use. The member must belong to the PDS allocated to ddname HFMEXEC. You can enter any of the following:
 - The name of the member.
 - A member name pattern (other than a single *) to list all matching members. You can then select the required member by entering an **s** in the **Sel** field. A member name pattern can consist of any characters that are valid in a member name and the following two special pattern characters:

asterisk (*)

Represents any number of characters. As many asterisks as required can appear anywhere in a member name. For example, if you enter ***d***, a list of all members in the data set whose name contains “d” is displayed.

percent sign (%)

A place-holding character representing a single character. As many percent symbols as necessary can appear anywhere in a member name. For example, if you enter **%%%**, a list of all members in the data set whose name is four characters in length is displayed.



Note: If you select this option but leave the **Use proc** member entry field blank, Z Data Tools displays a member name list. You can then select the required member by entering **s** in the **Sel** field.

(Also, see “*Supplying a procedure when using a Z Data Tools panel*” in the Z Data Tools User’s Guide and Reference.)

Additional print options

Displays the Print Options panel allowing you to specify additional print options.

Parent panels

- [Utility Functions panel on page 143](#)

Child panels

- “Print Options panel” in the Z Data Tools User’s Guide and Reference

Related tasks

- [Printing a CICS resource on page 47](#)

Set Processing Options panel

Lists the processing options available within ZDT/CICS. Selecting an option displays the relevant options panel.

Panel and field definitions

Figure 38. Set Processing Options panel

Process	Options	Help
ZDT/CICS	Set Processing Options	
1	Print	Print settings
2	System	System settings
3	Compiler	Language and compiler specifications
4	EDIT	Editor options
5	Sharing	VSAM Edit sharing options
6	Temporary	Temporary Data Set Allocations
7	Output	Output Data Set Allocations
8	Trace	Trace options
Command ===>		
F1=Help	F3=Exit	F4=CRetrieiv F7=Backward F8=Forward F10=Actions
F12=Cancel		

1 Print

Displays the Set Print Processing Options panel

2 System

Displays the Set System Processing Options panel

3 Compiler

Language and compiler specifications

4 EDIT

Displays the Edit/Browse Options panel

5 Sharing

VSAM Edit Sharing Options panel

6 Temporary

Displays the Set Temporary Data Set Allocation Options panel

7 Output

Displays the Set Output Data Set Allocation Options panel

8 Trace

Displays the Set Trace options panel

Parent panels

- [Primary Option Menu panels on page 133](#)

Child panels

- “*Set Print Options panel (option 0.1)*” in the Z Data Tools User’s Guide and Reference
- “*Language and Compiler Specifications panel*” in the Z Data Tools User’s Guide and Reference
- “*Edit/Browse Options panel*” in the Z Data Tools User’s Guide and Reference
- “*VSAM Edit Sharing Options panel*” in the Z Data Tools User’s Guide and Reference
- “*Set Temporary Data Set Allocation Options*” in the Z Data Tools User’s Guide and Reference
- “*Set Output Data Set Allocation Options*” in the Z Data Tools User’s Guide and Reference
- “*Set Trace options*” in the Z Data Tools User’s Guide and Reference

Related tasks

- [Setting your System Processing Options on page 37](#)
- [Setting your default processing options on page 36](#)

Utility Functions panel

Lists the utility functions available within ZDT/CICS. Selecting an option displays the relevant utility entry panel.

Panel and field definitions

Figure 39. Utility Functions panel

Process	Options	Help
<hr/>		
ZDT/CICS	Utility Functions	
0	DBCS	Set DBCS data format for print
2	Print	Print data
4	List	List resources
5	Printdsn	Browse ZDT/CICS print data set
6	Audit trail	Print audit trail report
7	Websphere MQ	List Websphere MQ managers and queues
Processing Options:		
CICS Resource		
<u>1</u>	1. File	
	2. Temporary Storage	
	3. Transient Data	
Command ==>		
<hr/>		
F1=Help	F3=Exit	F4=CRetriev F7=Backward F8=Forward F10=Actions
F12=Cancel		

0 DBCS

Displays the Set DBCS Format panel

2 Print

Displays the Print CICS File Entry panel

4 List

Displays the List CICS Resources Entry panel

5 Printdsn

Displays print output in full-screen mode

6 Audit trail

Displays the Print Audit Trail panel

7 Websphere MQ

Displays the Websphere MQ Managers panel

For more information about accessing Websphere MQ queues, see the "base" *Z Data Tools User's Guide*.

Parent panels

- [Primary Option Menu panels on page 133](#)

Child panels

- “Set DBCS Format panel” in the Z Data Tools User’s Guide and Reference
- [Print Entry panels on page 136](#)
- [List CICS Resources Entry panel on page 131](#)
- “Print Audit Trail panel” in the Z Data Tools User’s Guide and Reference
- “Copybook View and Print: Entry panel” in the Z Data Tools User’s Guide and Reference
- “WebSphere MQ Managers panel” in the Z Data Tools User’s Guide and Reference

Related tasks

- [Working with ZDT/CICS utilities on page 46](#)
- [Working with lists of CICS resources on page 48](#)
- [Working with CICS enqueues on page 53](#)

View Entry panels

You use the View Entry panels to enter the name of a resource to be edited. You also use these panels to specify the name of the copybook or template that describes a logical view of the data set.



Note: If you want to save any changes you make in the Z Data Tools/CICS editor session, use the ZDT/CICS Edit Utility.

There are three different View Entry panels. The type of View Entry panel that ZDT/CICS displays depends on which **CICS Resource** you selected on the Primary Option Menu panel:

Table 6. View Entry panels

CICS Resource	View Entry panel displayed
File	View CICS File Entry panel
Temporary Storage	View Temporary Storage Entry panel
Transient Data	View Transient Data Entry panel

Each of the View panels is shown below, followed by a list of entry fields covering all three panels. Where an entry field is not common to all three panels, the panel to which it applies is indicated.

Panel and field definitions

Figure 40. View CICS File Entry panel

<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp
ZDT/CICS View CICS File Entry Panel		
Input CICS VSAM File:		
File name	_____	
Sysid	_____	
Start position	_____	
Record limit	_____	Record sampling _
Copybook or Template:		
Data set name	_____	
Member	_____	Blank or pattern for member list
Processing Options:		
Copybook/template	Start position type	Enter "/" to select option
3 1. Above	1. Key	— Edit template _ Type (1,2,S)
2. Previous	2. RBA	— Include only selected records
3. None	3. Record number	
4. Create dynamic		
Command ===> _____ Applid _____		
F1=Help	F3=Exit	F4=Expand F7=Backward F8=Forward F10=Left
F11=Right	F12=Cancel	

Figure 41. View Temporary Storage Entry panel

<u>P</u> rocess	<u>O</u> ptions	<u>H</u> elp
ZDT/CICS View Temporary Storage Entry Panel		
Input Temporary Storage Queue:		
Queue name	_____	(Case sensitive)
Sysid	_____	
Pool name	_____	
Start position	_____	Record number
Record limit	_____	Record sampling _
Copybook or Template:		
Data set name	_____	
Member	_____	Blank or pattern for member list
Processing Options:		
Copybook/template	Enter "/" to select option	
3 1. Above	— Edit template _	Type (1,2,S)
2. Previous	— Include only selected records	
3. None		
4. Create dynamic		
Command ===> _____ Applid _____		
F1=Help	F3=Exit	F4=Expand F7=Backward F8=Forward F10=Left
F11=Right	F12=Cancel	

Figure 42. View Transient Date Entry panel

Process	Options	Help
ZDT/CICS View Transient Data Entry Panel		
Input Transient Data Queue:		
Queue name	_____	(Case sensitive)
Sysid	_____	
Start position	_____	Record number
Record limit	_____	Record sampling _
Copybook or Template:		
Data set name	_____	
Member	_____	Blank or pattern for member list
Processing Options:		
Copybook/template	Enter "/" to select option	
3 1. Above	_ Edit template	_ Type (1,2,S)
2. Previous	_	Include only selected records
3. None		
4. Create dynamic		
Command ==> _____ Applid _____		
F1=Help	F3=Exit	F4=Expand F7=Backward F8=Forward F10=Left
F11=Right	F12=Cancel	

File name (CICS resource: File only)

The 1–8 character name of the file you want to browse. It is used in conjunction with **Sysid** to produce a list of matching resources.

You can enter a fully-qualified or generic resource name. In a generic resource, use the percentage sign (%) to represent a single character, and an asterisk (*) to represent any number of characters.

Queue name (CICS resource: Temporary Storage only)

The 1–16 character name of the temporary storage queue you want to browse. It is used in conjunction with **Sysid** and **Pool name** to produce a list of matching resources.

You can enter a fully-qualified or generic resource name. In a generic resource, use the percentage sign (%) to represent a single character, and an asterisk (*) to represent any number of characters.

Queue name (CICS resource: Transient Data only)

The 1–4 character name of the transient data queue you want to browse. It is used in conjunction with **Sysid** to produce a list of matching resources.

You can enter a fully-qualified or generic resource name. In a generic resource, use the percentage sign (%) to represent a single character, and an asterisk (*) to represent any number of characters.

Sysid

The ID of the CICS systems where the resource resides. A blank value defaults to the local system.

You can enter a fully qualified or generic sysid. In a generic sysid, use the % sign to represent a single character, and an asterisk (*) to represent any number of characters.

Pool name (CICS resource: Temporary Storage only)

The TS pool name of a shared temporary storage pool and temporary storage processing shipped to the temporary storage server that manages the pool.

You can enter a fully-qualified or generic pool name. In a generic pool name use the percentage sign (%) to represent a single character, and an asterisk (*) to represent any number of characters.

If you specify a **Sysid** value and a TS Pool name, then a list of queues that match either is produced from which you can select the appropriate queue for processing.

Start position

Initial starting position for the data set to be browsed. The initial display is positioned at the specified record.

The default is the top of the data set. You can enter a negative record to indicate the number of records before the end of file. For example, to see just the last record on the file, enter -1 as the start point.

The format of the start position field is either numeric or character, depending upon the type of start position selected. For VSAM KSDS Key values, if the value you enter contains leading, embedded or trailing blanks, commas or quotation marks, it must be enclosed in quotation marks. You may also enter a hexadecimal string enclosed in quotation marks and preceded by X or x, for example, `x'C1C2'`.

For all other data set formats, a valid unsigned number must be entered.

To specify a starting position as the number of records before the end of file, enter a negative record number. For example, to see just the last record on the file, enter a start position of -1.

If you specify a starting position, you should also specify the **Start position type** in the Processing Options. If you do not, Z Data Tools assumes that the value provided in the Starting position field is a record number.

VSAM - KSDS: Key value

If the key is not matched, the record with a key greater than the value given is specified.

If the key value is greater than the last record in the data set, the "Position not found" condition is returned.

VSAM - ESDS: RBA (Relative Byte Address) Value

If the RBA is not matched, the record with a RBA greater than the value given is specified.

If the RBA value is greater than that of the last record in the data set, the "Position not found" condition is returned.

VSAM - RRDS: Slot value

If the slot number is greater than the last used slot in the data set, the "Position not found" condition is returned.

Queues – temporary storage and transient data

For queues, the start position is the record number. If the specified record number is greater than the number of records in the queue, the “Position not found” condition is returned.

Record limit

This field restricts the number of records retrieved from a data set (from the start point or top) resulting in an edit of a portion of the data set. You can use the keyword “*MEMORY*” as a record limit to restrict the number of records retrieved to as many as will fit comfortably in the available virtual storage.

The default start position is the top of the data set.

Record Sampling

Indicates whether you want record sampling to be performed on the data set. If you select this option, ZDT/CICS displays the Record Sampling panel.

Copybook or Template

Data set name and Member name of the template or copybook to be used to format your data.



Note: In the case of a copybook, this can be the name of a CA-Panvalet library, or a library accessed using the Library Management System Exit.

Copybook/template usage

Indicates if you want to use a template for a logical view of the data.

1

Use the template specified on the panel (or compile the specified copybook into a template, and use that).

2

Use the last template associated with the data set.

3

No logical view is to be used by the function.

4

Create a dynamic template.

Start position type (CICS resource: File only)

Determines how ZDT/CICS interprets the value provided in the Starting position field. If the Start position type is not specified, ZDT/CICS assumes that the value is a Record Number.

1. KEY

Only valid when the data set is a VSAM KSDS, VSAM AIX or VSAM PATH.

2. RBA

Only valid when the data set is a CICS VSAM ESDS.

3. Record Number

Default. Valid for any type of supported data set.

Edit template

Indicates if you want to edit the template before use. You edit the template when you need to change format, selection, data create attributes, and reformatting information for output copy templates.

Type (1,2,S)

The type of editing you want to perform.

You can specify one of the following values:

1

Edit the Record Identification Criteria by field first

2

Edit the Record Selection Criteria by field first

S

Edit the source definition for a template using the advanced copybook selection facility.

This option is ignored when editing a dynamic template.

Include only selected records

When the ZDT/CICS editor session is either in-storage (a record limit of *"MEMORY"* is used) or when you have selected **Record Sampling**, only the records selected by template processing are included in the Edit or Browse session.

This option does not alter the operation of the ZDT/CICS editor session if a template is not used.

Use I/O exit

Allows you to specify a user I/O exit for compressed or encrypted data sets.

This option has two fields. To select the option, enter *"/"* in the field to the left of Use I/O exit. With this selected, you can then specify which exit to use in the field to the right of the field label.



Note:

1. The fields only display if Z Data Tools is installed with the option **USEIOX=ENABLE**, and the **Exit enabled** field (in the Set System Processing Options panel) is set to YES. If a default is specified with either of those options, it is displayed in the field to the right of Use I/O exit.
2. I/O exits can only be used to process the data sets that you are using. They cannot be used to process the copybook or template that you are using to format the data set.

Parent panels

- [Primary Option Menu panels on page 133](#)

Child panels

The next panel displayed depends on the options selected in the View Entry panel.

Related tasks

- [Viewing and changing CICS resources on page 40](#)

Notices

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The User's Guide and Reference documents intended Programming Interfaces that allow the customer to write programs to obtain the services of Z Data Tools.

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